FINAL REPORT

Asset Management Program Audit San Francisco Public Utilities Commission Operation and Maintenance Programs

PREPARED FOR

Bay Area Water Supply & Conservation Agency

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List of Acronyms and Abbreviations

AMP	Asset Management Plans		
BAWSCA	Bay Area Water Supply & Conservation Agency		
CalWARN	California Water/Wastewater Agency Response Network		
CEQA	California Environmental Quality Act		
CIP	Capital Improvement Plan		
СМ	Corrective Maintenance		
CMMS	Computerized Maintenance Management Systems		
COF	Consequence of Failure		
DSOD	California Department of Water Resources Division of Safety of Dams		
EPA	Environmental Protection Agency		
GIS	Geographical Information Systems		
HHWP	Hetch Hetchy Water and Power		
IIMM	Institute of Public Works Engineering Australasia		
IPWEA	International Infrastructure Management Manual		
IT	Information Technology		
KPI	Key Performance Indicators		
LOF	Likelihood of Failure		
LOS	Level of Service		
O&M	Operation and Maintenance		
PCCP	Pre-stressed Concrete Cylinder Pipe		
PdM	Predictive Maintenance		
PM	Preventative Maintenance		
R&R	Renewal and Replacement		
RRA	Risk Resiliency Assessment		
RUL	Remaining Useful Life		
SFPUC	San Francisco Public Utilities Commission		
SOP	Standard Operating Procedure		
West Yost	West Yost Associates		
WSIP	Water System Improvement Program		
WST	Water Supply and Treatment		

1.0 EXECUTIVE SUMMARY

The Bay Area Water Supply & Conservation Agency (BAWSCA) retained West Yost Associates (West Yost) to evaluate and audit the processes, systems, and tools used to support asset management efforts at the San Francisco Public Utilities Commission (SFPUC) for two of its divisions. The divisions are the Hetch Hetchy Water and Power (HHWP) Division, responsible for operating the Hetch Hetchy Regional Water System east of Tesla; and the Water Supply and Treatment (WST) Division, responsible for operating the Hetch Hetchy Regional Water System at Tesla and west of Tesla. This report documents West Yost's audit criteria, assessment scoring methodology, data reviewed, staff interviews, and evaluation performed to form an opinion regarding the current state of the SFPUC asset management program.

This final report incorporates comments received from SFPUC on the Draft Report dated March 2020. Comments and West Yost response to comments are included in Appendix A.

1.1 Audit

The Environmental Protection Agency (EPA) addresses asset management with five simple questions.

- What is the current state of my assets?
- What is my required level of service?
- Which assets are critical to sustained performance?
- What are my best Operation and Maintenance (O&M) and Capital Improvement Plan (CIP) investment strategies?
- What is my long-term funding strategy?

These five questions yield several key elements of asset management that must be applied over the lifecycle of an asset. These include:

- Asset Registry
- Asset Risk: Criticality and Condition
- Service Level
- Maintenance Planning
- Life Cycle Cost Analysis
- Replacement Planning
- Business Processes
- Data Systems and Software Tools
- Staffing Plan

For this asset management audit, West Yost grouped these elements into 10 primary criteria. Table ES-1 presents a summary of the criteria.

1



Table ES-1. Criteria Summary		
Criterion	Description	
Asset Registry	A hierarchical asset registry supports asset location and the rolling up of performance such as cost, work, etc. and has a structured classification domain that includes defining attributes. It is the cornerstone of an asset management program and addresses the first of EPA's five questions which is to know your assets. This criterion evaluates the state of the asset register and its support of asset management objectives.	
IT Capabilities to Support Asset Management	Information systems are an essential tool set in asset management programs. This criterion evaluates support systems for asset management software tools.	
Risk Procedures	Risk in utility asset management considers the likelihood an asset may not perform at its intended service level, causing an adverse impact to the utility and the consequence of the asset failing. Risk must be addressed as part of a maintenance and asset renewal program. This criterion evaluates the use of risk policies to support decision-making.	
Operation and Maintenance	O&M is a process of providing inspection and service to an asset to achieve its prescribed useful life and must be optimized so as to not over- or under-manage the asset. This criterion evaluates the use of business processes, data collection, and maintenance practices to support asset management.	
Condition Assessment and Remaining Useful Life	Understanding where an asset is in its life cycle is essential to understanding when to apply renewal efforts. This criterion evaluates the monitoring of asset remaining useful life in decision-making.	
Replacement Planning	Replacement planning addresses the last of the EPA's asset management questions and includes strategies for setting aside the needed funding for asset renewal. This criterion evaluates if processes are in place for long-term funding of asset refurbishment and replacement.	
Service Level	One of the considerations in utility asset management is the acceptance that not all assets serve the same mission nor have the same criticality and, as such, must be managed to perform at a desired level of service. This criterion evaluates the practice of using required service level to optimize decision-making.	
Connection to Other Plans	Utilities operate based on plans and visions adopted by their governing board and other senior management. These plans must be coordinated and consistently applied. This criterion assesses the level to which asset management activities are influenced by relevant agency plans.	
Supply Chain	Supply chain for a utility is the management of the materials consumed for its day- to-day and year-to-year operation. Many efficiencies may be gained or lost due to improper materials management practices. This criterion evaluates supply chain practices to support asset management and improves work efficiencies.	
Staffing to Support Asset Management	An asset management program relies on many roles and disciplines to implement the measures describes above. This criterion evaluates staffing levels to support asset management.	

Each of the criteria were evaluated on a five-level capability maturity model (shown in Table ES-2 below), similar to that used by the Institute of Public Works Engineering Australasia (IPWEA) which produces the International Infrastructure Management Manual (IIMM). The five-level model used in this audit represents a more practical interpretation for the water industry.





Table ES-2. Capability Maturity Model			
Level	Description		
Initial ^(c) Processes are disorganized, even chaotic. Success is likely to depend on individual efforts and is not considered to be repeatable, because processes would not be sufficiently defined and documented to allow them to be replicated.			
Repeatable ^(a) Basic project management techniques are established, and successes could be repeated, because the requisite processes would have been made established, defined, and documented.			
Defined ^(d)	An organization has developed its own standard process through greater attention to documentation, standardization, and integration.		
Managed ^(b) An organization monitors and controls its own processes through data collection and analy			
Optimized ^(e) Processes are constantly being improved through monitoring feedback from current processes and introducing innovative processes to better serve the organization's particular needs.			
(a) Basic project management techniques are established, and successes could be repeated because the requisite processes would have been made established, defined, and documented.			
(b) An organization monitors and controls its own processes through data collection and analysis.			
(c) Processes are disorganized, even chaotic. Success is likely to depend on individual efforts, and is not considered to be repeatable, because processes would not be sufficiently defined and documented to allow them to be replicated.			
(d) An organization has developed its own standard process through greater attention to documentation, standardization, and integration.			

(e) Processes are constantly being improved through monitoring feedback from current processes and introducing innovative processes to better serve the organization's particular needs.

1.2 Scope of Review

To support our analysis, West Yost requested and received a variety of information from each Division. The information received and reviewed is outlined in Section 4 of this report.

West Yost also met with staff in both the HHWP and WST Divisions of the SFPUC in January 2020 to discuss each of the 10 evaluation criteria. The discussion related specifically to each division's individual asset management practices. Both divisions utilize Maximo by IBM for a Computerized Maintenance Management System (CMMS).

West Yost met collectively with Margaret Hannaford, Scott Riley, and Cheryl Sperry of the HHWP Division on January 22, 2020 to review a series of questions that support the evaluation criteria and discuss the HHWP asset management program.

West Yost then met collectively with Angela Cheung, Edward Forner, and Annie Li of the WST Division on January 24, 2020 to review the same set of questions. Detailed information pertaining to the staff interviews is located in Section 5 of this report.

1.3 Conclusions and Recommendations

1.3.1 Conclusions

Based on a review of data and documents provided by WST and HHWP, West Yost finds that SFPUC embraces the basic principles of asset management within its WST and HHWP Divisions. Guiding policy and direction exists at the management level but WST and HHWP are at different levels of implementation and, in some areas, are not consistent in their implementation of certain principles listed below.



- Management direction for asset management is strong and is captured in the 2018 State of the Regional Water Supply Report and the 2020 Strategic Plan. Specific objectives included in both documents include:
 - Establishing quantifiable operational and capital Level of Service (LOS) goals by enterprise.
 - Formalizing the asset management approach across SFPUC.
 - Establishing a uniform investment prioritization process linked to asset management priorities across SFPUC.
 - Ensuring SFPUC can mitigate, respond to, and recover from threats and disasters.

The summary assessment based on the capability maturity model is presented in Table ES-3.

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Criterion	HHWP	WST	Conclusions
Asset Registry	Repeatable ^(a)	Repeatable	Asset registries are reportedly nearly complete but there is no process in place to regularly update the registries and staffing levels do not support routine asset reviews.
IT Capabilities to Support Asset Management	Managed ^(b)		IT tools and systems are current and provide proper support to asset management technology tools.
Risk Procedures	Initial ^(C)	Initial	Risk policies exist, yet both HHWP and WST report little to no risk assessments being performed. HHWP is embarking on a strong implementation of asset management programs including preparation of risk assessment protocol and a series of asset management plans. The use of Maximo could be extended to capture risk and asset performance data for improved, data- centered decision-making.
Operation and Maintenance	Repeatable	Repeatable	Maintenance practices are developed, and maintenance is being performed.
Condition Assessment and Remaining Useful Life	Repeatable	Initial	Institutional knowledge is relied on significantly. Staff reports that a more data-centric structure is desired and would benefit planning and O&M. Remaining useful life is not measured, making it difficult to forecast replacement and rehabilitation needs beyond just a few years.
Replacement Planning	Repeatable	Repeatable	Replacement planning is performed during biennial project planning and budgeting but does not incorporate a structured platform of risk in the decision-making. Although collaboration exists between Divisions, decisions appear to be made based on institutional knowledge.
Service Level	Repeatable	Initial	A structured service level objective is not in place. Without a service level objective, certain assets or facilities may be over- or under-maintained.
Connection to Other Plans	Initial	Repeatable	There is some development of strategies at HHWP to develop asset management protocols in conformance to the 2018 State of the Regional Water System Report.
Supply Chain	Defined ^(d)	Defined	Supply Chain management is prescribed, and methods exist.
Staffing to Support Asset Management	Defined	Defined	Staffing functions to support asset management and defined.

(b) An organization monitors and controls its own processes through data collection and analysis.

(c) Processes are disorganized, even chaotic. Success is likely to depend on individual efforts, and is not considered to be repeatable, because processes would not be sufficiently defined and documented to allow them to be replicated.

(d) Defined = An organization has developed its own standard process through greater attention to documentation, standardization, and integration.

(e) Optimized = Processes are constantly being improved through monitoring feedback from current processes and introducing innovative processes to better serve the organization's particular needs.



1.3.2 Recommendations

West Yost has developed recommendations for enhancements to the SFPUC Asset Management Program. This Phase 1 audit represents a qualitative evaluation of the principles and practices at SFPUC. It was based on a review of an assembly of documents provided by SFPUC and staff interviews and identified preliminary areas that could be improved to yield efficiencies that will result in long term life-cycle cost reductions. Many of these recommendations are currently being implemented by HHWP in its efforts to address risk and will take time to complete. West Yost did not assess staffing levels, so that element is excluded from our recommendations. Recommendations to improve the asset management program at SFPUC are presented below.

1.3.2.1 Enhancements to SFPUC's Current Asset Management Planning

- Develop a uniform approach to risk assessment including consequence of failure and likelihood of failure definition, risk definition, and risk thresholds and develop a policy for application across the entire utility. This can be achieved by completing the development of the risk framework and risk assessment tool for HHWP and including WST.
- WST join in the ISO-55001 Gap Analysis and asset management planning that HHWP is conducting.

1.3.2.2 Near Term, Within One to Three Years

- Combine all work and asset management standards for application to HHWP and WST uniformly. Abolish standards and procedures specific to one Division.
- Develop a policy and process to review the asset registry in Maximo for accuracy. Maximo should have current, existing assets properly classified and documented with appropriate attributes. It is recommended SFPUC perform a review and update of its asset registry at approximately five-year intervals.
- It is recommended SFPUC look for opportunities to align its asset hierarchy, classification and attributes for both HHWP and WST. Formalizing the asset management approach uniformly across the utility was mentioned in the Fiscal 2020 Strategic Plan Asset Management Objectives. Further a unified approach provides: 1) greater overall collaboration between staff when both systems use the same configuration. , 2) consistent classifications and attributes allow for shared data and metrics such as profiling equipment failure, equipment standards sharing of inventory stores, and 3) a unified standard can be more efficient to develop and maintain than separate standards for the same segment of the system.
- Review and update current asset definition policy. Policy should consider not only asset value but asset criticality and maintenance requirements. While SFPUC manages LOTO through its existing regulatory and safety policies, SFPUC should consider also including LOTO in the asset definition policy.
- Develop a uniform policy and business processes for work management, asset creation and modification, and work prioritization. This uniform policy should be developed as a utility standard for application to HHWP and WST collectively.



1.3.2.3 Long Term, Within Three to Five Years

- Evaluate asset criticality at least every 5 years, after a major CIP or when a significant modification to a system is implemented.
- Maintain a risk register in Maximo noting the total risk score and the criticality and condition score. This can be addressed simply using the asset hierarchy with criticality evaluated at the process or subprocess level with child assets inheriting the criticality. Condition can then be evaluated for assets with higher criticality.
- Configure Maximo for automated workflow processes for work and maintenance where minimum data collection points are required and where process efficiencies may be increased.
- Develop a policy and method for estimating remaining useful life.
- Develop a replacement planning program to forecast asset renewal needs and costs. Link this forecast to the establishment of utility rates. Use this forecast to inform CIP planning efforts.
- Implement the Fiscal 2020 Strategic Plan Asset Management Objectives to develop LOS criteria and goals and connect maintenance planning with LOS requirements by asset. LOS goals can be inherited from higher process or subprocess levels in the asset hierarchy to reduce the analysis required.
- Implement the Fiscal 2020 Strategic Plan Asset Management Objectives to develop a uniform investment process linked to asset management priorities across the utility.
- Implement the Fiscal 2020 Strategic Plan Asset Management Objectives to formalize the asset management approach across the utility uniformly.
- Develop a formal warehouse management plan to be applied to both HHWP and WST. The plan should renew business processes and policies for inventory counts and reconciliation, establish procedures for maintaining critical spare parts that can be shared between HHWP and WST.
- Evaluate spare parts lists and begin stocking spare parts in the warehouse for asset maintenance work.
- Eliminate the practice of undocumented storerooms with "invisible" inventory that is not valued or carried in the finance ledger.

1.3.2.4 BAWSCA Phase 2 Audit Recommendations

- Evaluate SFPUC's use of Maximo as a work and asset management tool. This includes evaluating Maximo's asset registry, maintenance management, supply chain, workflow, and other modules.
- Participate in the HHWP effort to complete the ISO-55000 gap analysis and establish asset management plans, risk management policies, and the risk management tool. This will allow BAWSCA to follow the development of the program versus waiting for a post-implementation review and will keep BAWSCA informed of progress towards completion of the gap analysis and SFPUC asset management principles and policies.



2.0 BACKGROUND

The San Francisco Public Utilities Commission (SFPUC) provides retail drinking water and wastewater services to the City of San Francisco, wholesale water to three Bay Area counties, green hydroelectric & solar power to Hetch Hetchy electricity customers, and power to the residents & businesses of San Francisco through the CleanPowerSF program. SFPUC's mission is to provide customers with high quality, efficient and reliable water, power, and sewer services in a manner that is inclusive of environmental and community interests, and that sustains the resources entrusted to its care. The SFPUC manages the Hetch Hetchy Regional Water System, which includes the infrastructure that delivers the water supply to the 26 Bay Area Water Supply and Conservation Agency (BAWSCA) member agencies.

The SFPUC is relied upon to manage its infrastructure assets for sustainable performance. Asset Management can be defined as the balancing of costs, risks, opportunities, and level of service (LOS) to achieve the optimum performance value of a utility's infrastructure. This involves the collection and maintenance of asset related data to make data-driven decisions. It also involves multi-divisional and multi-agency team collaboration and transparency of the decision-making efforts and the programs that support them to promote confidence and partnership within SFPUC and the broad BAWSCA stakeholder base.

BAWSCA retained West Yost Associates (West Yost) to evaluate and audit processes, systems, and tools used to support asset management efforts at SFPUC for its Hetch Hetchy Water

BAWSCA Member Agencies

- Alameda County Water District
- California Water Service
- City of Brisbane
- City of Burlingame
- City of Daly City
- City of East Palo Alto
- · City of Hayward
- City of Menlo Park
- City of Millbrae
- City of Milpitas
- City of Mountain View
- City of Palo Alto
- City of Redwood City
- City of San Bruno
- City of San Bruno
- City of San Jose
- City of Sunnyvale
- Coastside County Water District
- Estero Municipal Improvement
 District
- Guadalupe Valley Municipal
 Improvement District
- Mid-Peninsula Water District
- North Coast County Water District
- Purissima Hills Water District
- Stanford University
- Town of Hillsborough
- Westborough County
 Water District

and Power (HHWP) Division, responsible for operating the Hetch Hetchy Regional Water System east of Tesla; and the Water Supply and Treatment (WST) Division, responsible for operating the Hetch Hetchy Regional Water System at Tesla and west of Tesla.

This report documents West Yost's audit criteria, assessment scoring methodology, data reviewed, staff interviews, and evaluations performed to form an opinion regarding the current state of the SFPUC asset management program.



3.0 ASSET MANAGEMENT OVERVIEW

Asset Management in the utility industry is a process that optimizes the expenditures made over the life cycle of an asset. It is a combination of strategic direction, the establishment of service level requirements, a process to manage an asset to not exceed the prescribed service level of the asset, and the management of data or information to support these elements. This includes an assessment of risk and capital planning for renewal and replacement as well as an investment strategy to support it. The Environmental Protection Agency (EPA) captures this in the document *Asset Management for Water and Wastewater Utilities* (https://www.epa.gov/sustainable-waterinfrastructure/asset-management-water-and-wastewater-utilities). In it, EPA identifies the five elements of asset management with 5 questions:

- What is the Current State of my assets?
- What is my required level of service?
- Which assets are critical to sustained performance?
- What are my best operation and maintenance (O&M) and Capital Improvement Plan (CIP) investment strategies?
- What is my long-term funding strategy?

The five questions above represent six key practical elements of asset management that must be applied over the lifecycle of an asset. This includes establishment of an asset inventory and the attributes that describe the assets, characterizing assets for risk including asset criticality and condition, determining the appropriate service level the asset is required to operate at, maintaining the asset, and tracking the assets' performance and costs and planning for asset renewal and replacement. The six key practical elements of asset management are:

- Asset Registry
- Asset Risk: Criticality and Condition
- Service Level
- Maintenance Planning
- Life Cycle Cost Analysis
- Replacement Planning

This is in addition to the three key support elements of asset management that provide the systems and procedures that enable a successful asset management initiative:

- Business Processes
- Data Systems and Software Tools
- Staffing Plan



3.1 Audit Criteria

West Yost grouped these elements into 10 primary criteria for the evaluation of SFPUC asset management practices. The primary criteria are described below.

3.1.1 Asset Registry

The asset registry is the cornerstone of an asset management program. It addresses the first of EPA's five questions which is to know your assets. A robust asset registry is typically contained in a database that is structured in a hierarchy that supports asset location and the rolling up of performance (such as cost, work, etc.) and has a structured classification domain that includes defining attributes. Policies and business processes should exist to define what constitutes an asset and for regular review and updating of the asset registry.

3.1.2 IT Capabilities to Support Asset Management

Evaluation Criteria

- Asset Registry
- IT Capabilities to Support Asset Management
- Risk Procedures
- Operation and Maintenance
- Condition Assessment and Remaining Useful Life
- Replacement Planning
- Service Level
- Connection to Other Plans
- Supply Chain
- Staffing to Support Asset Management

Information systems are an essential tool set in asset management programs. Computerized Maintenance Management Systems (CMMS) and Geographic Information Systems (GIS) provide registries for assets and can be integrated to share data. Most CMMS' also include maintenance planning and scheduling, work management functionality, advanced data collection related to asset performance, asset profiling for condition and criticality and reporting abilities to extract data. GIS systems incorporate spatial relationships to other features such as environmental and land use features. Information Technology (IT) systems must be managed to remain up to date and compatible with host systems including hardware and software.

3.1.3 Risk Procedures

Risk in utility asset management considers the likelihood an asset may cause an impact to the utility. It is measured in terms of the likelihood of an asset failure that will trigger an event coupled with the consequence of that event to certain utility values. The consequence of asset failure (COF) is a relation to how critical that asset is to the utility. The likelihood of failure (LOF) relates to asset condition. Factors influencing consequence of failure include Environmental, Financial, Safety, Operational and Capacity impacts. There are many subfactors such as asset redundancy that are considered in the analysis.

Managing risk requires a risk policy that defines the elements of risk to the utility (COF and LOF), risk objectives that define the level of tolerable risk, and action levels to mitigate risk as it increases. The CMMS or other registry is used to maintain a Risk Register of assets or other level in the asset hierarchy.

3.1.4 Operation and Maintenance

O&M is a process of providing inspection and service to an asset to achieve its prescribed useful life. It includes the scheduling of work activities so that they are completed within a prescribed time frame and interval, plan to complete prescribed work tasks, the collection of asset data such



as inspections notes and the logging of performance data to efficiently optimize O&M work activities. Business Processes provide a prescribed workflow for activities and are standardized to assure O&M activities are performed with an intended outcome. Policies are typically established to assure processes are followed.

3.1.5 Condition Assessment and Remaining Useful Life

Understanding where an asset is on its life cycle curve is essential to understand when to apply renewal efforts. An understanding of asset condition and its corresponding remaining useful life (RUL) is a significant part of the assessment of risk described earlier. Assessing asset condition includes formal assessment criteria and metrics against which to gauge. Policies and business processes should be established and followed to assure condition ratings are consistently monitored.

3.1.6 Replacement Planning

Replacement planning addresses the last of EPA's asset management questions and includes strategies for setting aside the needed funding for asset renewal. It includes forecasting the expenditures required for asset renewal and the funding required to satisfy the renewal needs and policies governing the funding sources and expenditures from those sources.

3.1.7 Service Level

One of the considerations in utility asset management is the acceptance that not all assets serve the same mission nor have the same criticality. One asset may be providing a service that is not as critical to the utility as another and as such it may not warrant the same O&M and renewal efforts as another more critical asset. To this end, the application of service levels to certain assets is important such that an asset is not overly maintained or renewed too soon. This requires policies for definition of service level metrics important to the utility and service level goals applied to assets or other hierarchical positions.

3.1.8 Connection to Other Plans

Utilities operate based on plans and visions adopted by their governing board and other senior management. This includes the development of master plans and other planning instruments that guide the operation and management of the utility. Asset management is a key element of these planning instruments and should be integrated into their application.

3.1.9 Supply Chain

Supply chain for a utility is the management of the materials consumed for its day-to-day and yearto-year operation. This involves the purchasing process and the warehouse management of stored materials. As applied to asset management, this also includes the availability of important materials that are critical to the operation of a utility's infrastructure.

3.1.10 Staffing to Support Asset Management

An asset management program relies on many roles and disciplines to implement the measures described above. Individuals, groups, and committees are needed to establish policies and business processes and to monitor the systems and the data collected.

Table 1 presents the primary criteria, sub criteria, and the metrics used for purposes of this study.



Table 1. Evaluation Criteria			
Criterion	Sub Criteria	Criterion Metric	
Asset Registry	Business Processes for Asset Creation and Modification	Business Processes, including standard operation procedures, are developed and followed such that asset registry is maintained at highest level of accuracy.	
	Asset Registry	Asset Registry is complete and represents an appropriate cross-section of assets.	
	Asset Registry Hierarchy	Asset Hierarchy is well defined and provides sufficient detail to assess cost, risk, and work at multiple levels.	
	Asset Classification Domain	Asset Classification structure is sufficiently detailed to define assets individually by type without significant generalization.	
	Asset Attribute Domain	Asset attributes are detailed by classification to provide enough asset data and knowledge.	
	Asset Definition	A definition of an asset, for the purposes of asset management planning, exists and is used to develop the asset registry.	
	Policy for updating asset registry	A policy is in place that provides for the review of the asset registry and updating on a regular basis.	
	List of software tools such as Maximo, GIS, InfoAsset, etc. including version	Software list in place.	
	Data Flow Diagram	A data flow diagram is in place that documents integrations between asset management software tools.	
	Modules for software tools	Appropriate modules available and in use.	
	Discovery Tools	Discovery Tools are in use for hardware and software.	
	Mobile connectivity Platform	Mobile computing is in use on a reliable network system.	
IT Capabilities to	IT Staffing dedicated to Asset Management Systems	Sufficient staff positions are authorized and filled that are dedicated to management of Asset Management hardware and software management. Vendors are contracted for support as needed.	
Support Asset Management	Infrastructure replacement and refresh policy	A policy is in place for the replacement of aging IT infrastructure including hardware and software dedicated to asset management.	
	IT budget for asset management hardware and software support.	Sufficient budget is allocated for IT hardware, software, and staff.	
	LAN/WAN Platforms (diagram/map)	Local and Wide Area Network plans are developed that document network configuration.	
	Patch Management Plan	A Patch Management Plan is in place and is followed to keep software products current to achieve optimum performance.	
	Security Plan - Public/Private access, Firewall	A Security Plan is in place that provides security against cyber threats.	
Risk Procedures	Risk Policy	A Risk Policy is in place that interprets Criticality and Condition to develop Risk Ratings for assets as well as defines thresholds for action based on Risk.	
	Business Process for Criticality Assessment	A structured process is in place to evaluate system and asset criticality.	

Table 1. Evaluation Criteria



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Table 1. Evaluation Criteria			
Criterion	Sub Criteria	Criterion Metric	
	Description of Risk management tools currently in use	Risk assessment tools exist and are used to evaluate criticality and condition of assets and systems.	
	Risk Register	A Risk Register is in place for all systems and assets.	
	Criticality criteria and definitions	Criticality criteria and definitions are in place.	
	Maintenance Management	Preventative maintenance activity is performed as required by the manufacturer or the specific asset performance.	
	Maintenance Management	Predictive maintenance activity is performed as required by the manufacturer or the specific asset.	
Operation and Maintenance	Maintenance Management	Business Processes exist for work and maintenance management.	
Maintenance	Maintenance Management	Asset performance data are collected and available for analysis.	
	Work Management	Work is performed efficiently based on asset and work prioritization.	
	Work Management	Work Management data are collected and available for analysis	
	Business Process for Condition Assessment	A structured process is in place to evaluate system and asset condition.	
o 1111	Condition criteria and definitions	Condition criteria and definitions are in place.	
Condition Assessment and Remaining Useful Life	RUL	Policy, procedures, and criteria for estimating RUL of assets are in place and RUL assessments are performed in accordance with the policy.	
	Policy for updating RUL	A policy is in place that provides for the review of estimated RUL of assets on a regular basis.	
	Condition Assessment Register	Asset condition is monitored in the asset registry.	
	Rehabilitation and Replacement Planning	Infrastructure rehabilitation and replacement planning methodology is in place and planning is conducted in accordance with the methodology.	
Replacement Planning	Rehabilitation and Replacement Funding	A funding plan is in place and maintained for infrastructure rehabilitation and replacement.	
	Rehabilitation and Replacement Expenditure Policy	A policy for the expenditure of rehabilitation and replacement is in place and funds are allocated in accordance with the plan.	
Service Level	Service Level definitions for asset management	Service Level goals are defined and applied to each asset as appropriate.	
Connection to Other Plans	Capital Improvement Plan	Asset Management plan elements and principles are an integral part of other planning documents where asset renewal, funding, and replacement are considered.	
	Business Process and Policy for Supply Chain	Business Processes and Policies for Supply Chain are in place and followed.	
	Item Master Export	Item Master is developed and applied to assets in the asset registry.	
Supply Chain	Warehouse Management	Warehouses (virtual or physical) exist with inventory managed in logical rows, shelves, bins, etc.	
	Warehouse Management	Supply chain processes are connected to the Work Order.	
	Warehouse Management	Parts are reserved against work orders.	



Table 1. Evaluation Criteria			
Criterion	Sub Criteria	Criterion Metric	
	Warehouse Management	Physical and Cycle Counts are performed at regular intervals.	
Staffing to Support Asset Management	Staff matrix and job description	Staff matrices and job descriptions dedicated to support work and asset management exist.	

3.2 Assessment Scoring Methodology

Each of the criteria were evaluated on a five-level capability maturity model (shown in Table 2 below), similar to that used by the Institute of Public Works Engineering Australasia (IPWEA) which produces the International Infrastructure Management Manual (IIMM). The five-level model used in this audit represents a more practical interpretation for the water industry

Table 2. Capability Maturity Model		
Level	Description	
Initial	Processes are disorganized, even chaotic. Success is likely to depend on individual efforts and is not considered to be repeatable, because processes would not be sufficiently defined and documented to allow them to be replicated.	
Repeatable	Basic project management techniques are established, and successes could be repeated, because the requisite processes would have been made established, defined, and documented.	
Defined	An organization has developed its own standard process through greater attention to documentation, standardization, and integration.	
Managed	An organization monitors and controls its own processes through data collection and analysis.	
Optimized	Processes are constantly being improved through monitoring feedback from current processes and introducing innovative processes to better serve the organization's particular needs.	



4.0 DATA REVIEWED

West Yost prepared an information request and submitted it to BAWSCA which was forwarded to SFPUC. The information requested related to policy, procedures, and discrete data related to assets. A listing of the data requested is presented below.

- Asset Registry
 - Business Processes for Asset Creation
 - Asset Registry export
 - Asset Registry hierarchy
 - Asset Classification Domain
 - Asset Attribute Domain
 - Asset Definition
 - Policy for updating asset registry
- IT Capabilities to Support Asset Management
 - List of software tools such as Maximo, GIS, InfoAsset, etc. including version
 - Integration map of software tools
 - Modules for software tools listed above
 - Discovery Tools in use for hardware and software
 - Mobile connectivity Platform
 - Staff count and title dedicated to management of Asset Management hardware and software management
 - Infrastructure replacement and refresh policy
 - IT budget for asset management hardware and software support.
 - Contracted Vendors
 - LAN/WAN Platforms (diagram/map)
 - Patch Management Plan
 - Security Plan Public/Private access, Firewall
- Risk Procedures
 - Risk Policy
 - Business Process for Criticality Assessment
 - Description of Risk management tools currently in use
 - Risk Register export
 - Criticality criteria and definitions
- Operation and Maintenance
 - Business processes for all work management efforts
 - Maintenance Policy



- Condition Assessment and RUL Business Process for Condition Assessment
 - Condition assessment criteria and definitions for all asset classes
 - Policy, procedures, and criteria for estimating RUL of assets
 - Condition Assessment Register export
- Replacement Planning
 - Describe infrastructure rehabilitation and replacement planning methodologies currently in place
 - Most recent infrastructure replacement and rehabilitation planning forecast
 - Summary of funding sources for rehabilitation and replacement of aging infrastructure. Please include current fund balances.
 - Policy for expenditure of funds reserved for rehabilitation and replacement of aging infrastructure
- Service Level
 - Service Level definitions for asset management
- Connection to Other Plans
 - Capital Improvement Plan
 - Strategic Plan
 - Master Plan
 - Other documents connected to asset management efforts
- Supply Chain
 - Business Process for Supply Chain
 - Item Master Export
 - Supply Chain Policies
- Staffing to Support Asset Management
 - Staff matrix and job description for work and asset management

SFPUC provided the following documents. Depending on the scope and content of the documents, West Yost either reviewed or noted their existence as a resource to SFPUC.

- WST Asset List, Undated
- DSOD Inspection of Dam No. 10-21 dated February 4, 2019
- <u>Internal Inspection of Crystal Springs Bypass Pipeline</u>, SFPUC, San Francisco, Simpson Gumperz & Heger, August 16, 2018
- <u>Maintenance Engineering Asset Condition Assessment Annual Summary Report,</u> <u>Water Supply and Treatment Division</u>, September 15, 2009
- <u>Maintenance Engineering Asset Condition Assessment Quarterly Report, First</u> <u>Quarter 2011, April 22, 2011</u>



- <u>Maintenance Engineering Asset Condition Assessment Quarterly Report, Third</u> <u>Quarter 2010,</u> December 30, 2010
- <u>Maintenance Engineering Asset Condition Assessment Quarterly Report, Fourth</u> <u>Quarter 2010</u>, January 27, 2011
- PowerPoint Presentation on Work Scheduling, Undated
- City and County of San Francisco, Office of the Controller, Accounting Policies and Procedures, July 1, 2016
- Spreadsheet titled <u>HH Inventory Valuation Report for Storeroom(s) HH-</u> <u>MAIN</u>, Undated
- Asset Management Services, Roles and Responsibility Matrix, Undated
- <u>ISO 55001 Gap Analysis, Hetch Hetchy Water and Power Statement of Work</u>, Genesis Solutions, April 2019
- MAX SOP 1056 Rotating Assets, Undated
- Asset List Guiding Document Dated September 9, 2019
- HHWP Asset List dated September 9, 2019
- HHWP Asset Hierarchy
- Maximo Classification Structure Guiding Document Dated September 9, 2019
- Maximo Classification Domain Dated September 9, 2019
- Maximo Asset Attribute Guiding Document Dated September 9, 2019
- Maximo Asset Attribute Domain Dated September 9, 2019
- <u>State Of The Regional Water System</u>, 2018
- <u>Hetch Hetchy Water, Short and Long Term Risk Based Capital Planning Phase 1</u> <u>Definition, Scope of Work, Black & Veatch, December 22, 2017</u>
- <u>Hetch Hetchy Water, Short and Long Term Risk Based Capital Planning Phase 2A,</u> <u>Scope of Work, Black & Veatch, February 5, 2018</u>
- <u>Hetch Hetchy Water, Short and Long Term Risk Based Capital Planning Phase 2B,</u> <u>Scope of Work</u>, Black & Veatch, August 17, 2017
- Draft Technical Memorandum Capital Planning Study Proposed Asset Valuation Approach, Hetch Hetchy Water and Power, Black and Veatch, September 3, 2019
- Hetch Hetchy Water and Power Assets Master Plan, Black and Veatch, December 22, 2009
- Job Request Form Flowchart, dated January 10, 2019
- Job Initiation Form
- Job Initiation Form Approval Process
- Project On Hold Process, December 14, 2018



- HHWP Maintenance Engineering Policy for Project Closeout, May 1, 2019
- HHWP Project Closeout Memorandum Template, Undated
- Closeout Workflow Flow Chart, April 19, 2019
- Workflow/Status Relationships, Undated
- Services Requests in Maximo presentation, May 17, 2017
- Presentation on Work Scheduling, Undated
- Pre-Loaded Material in a Work Order Presentation, September 19, 2018
- Dam Safety Program Report, AECOM WRE, April 2014
- Work Order Approval Standard Operating Procedure, December 15, 2010
- Supervisor Approval of Work Orders Standard Operating Procedure, February 22, 2011
- Planner Work Order Preview Standard Operating Procedure, June 24, 2019
- Supervisor Work Order Completion Standard Operating Procedure, February 22, 2011
- Bucket (Backlog) Management Standard Operating Procedure, February 22, 2011
- Work Log Standard Operating Procedure, November 1, 2014
- Planner Review Standard Operating Procedure, November 1, 2014
- HSIP Work Order Initiation Standard Operating Procedure, February 22, 2011
- Creating A New HSIP Work Order Standard Operating Procedure, February 22, 2011
- Reliability Reporting Method, Undated
- Priority Codes Standard Operating Procedure, July 25, 2014
- Backlog Management Spreadsheet (Bucket), Undated
- List of Condition Assessment Reports since 2007
- Criticality Assessment Template, Undated
- Spreadsheet of Project Expenditures Based on General Ledger, Undated
- City and County of San Francisco, Fixed Asset Definitions and Guidelines, October 2013
- 2020 San Francisco Public Utilities Strategic Plan, dated August 2016
- Materials Management Process Schematic, Undated
- Materials Management Process, Undated
- Hetch Hetchy Inventory Valuation Report for Storerooms, Undated
- Maintenance Engineering Staff Roles, Undated
- Asset Management Services Roles and Responsibilities, Undated



- SFPUC 2018 2019 Performance Plan and Appraisal Report Human Resources
- HHWP Asset Management Services Competency Model, Dated May 12, 2017
- HHWP Competency Model Validation Report, Asset Management Services, Dated May 1, 2017
- HHWP Materials Management Staff Matrix, Undated
- HHWP Communication and Coordination Process, Undated
- HHWP Service Request to Work Order Through Close-Out Role Flow, Undated
- Warehouse Commodity Code Item Master, November 15, 2016
- WST Warehouse Policies and Procedures, July 1, 2014
- WST Purchasing and Accounts Payable Policy and Procedures, April 30, 2018
- WST CMMS Business Practices Policy and Procedure, October 5, 2011

The September 2018 SFPUC report titled "State of the Regional Water System" is highlighted for its mention of asset management objectives for SFPUC. The report is published in September of every even-numbered year in accordance with contractual requirements in the July 2009 Water Supply Agreement between the SFPUC and its wholesale water customers (Section 3.10B of the agreement). It includes a discussion of notable events related to the water system as well as a summary of SFPUC's asset management and maintenance activities and capital improvement program. Section 3 of the report is included as Appendix B.

In the report SFPUC states it:

"is striving towards integration of the following functions that collectively create an asset management program:

- Define LOS: Establish, publish, and regularly review LOS and related performance objectives.
- Document Asset Inventory and Condition: Perform periodic condition assessment of assets and determine actual performance as related to the LOS.
- *Plan/Analyze: Perform planning tasks that help identify performance shortcomings and, where needed, modify maintenance practices and/or generate capital project scopes that eliminate the performance gaps and prioritize work.*
- Develop Budget: Review cost estimates of new or modified work, compare to the existing budget, and prepare revised budgets for decision makers' review. In parallel, SFPUC Finance staff help prioritize and structure the budget (including the CIP) by providing financing options and limitations.
- Implement/Operate: Carry out maintenance programs, as adjusted, and complete any capital projects.
- Obtain/Apply Feedback: Record available data for use in informing planning and budgeting."

The diagram presented on Figure 1 applies to both the HHWP and the WST divisions and illustrates how SFPUC intends these functions to work together.



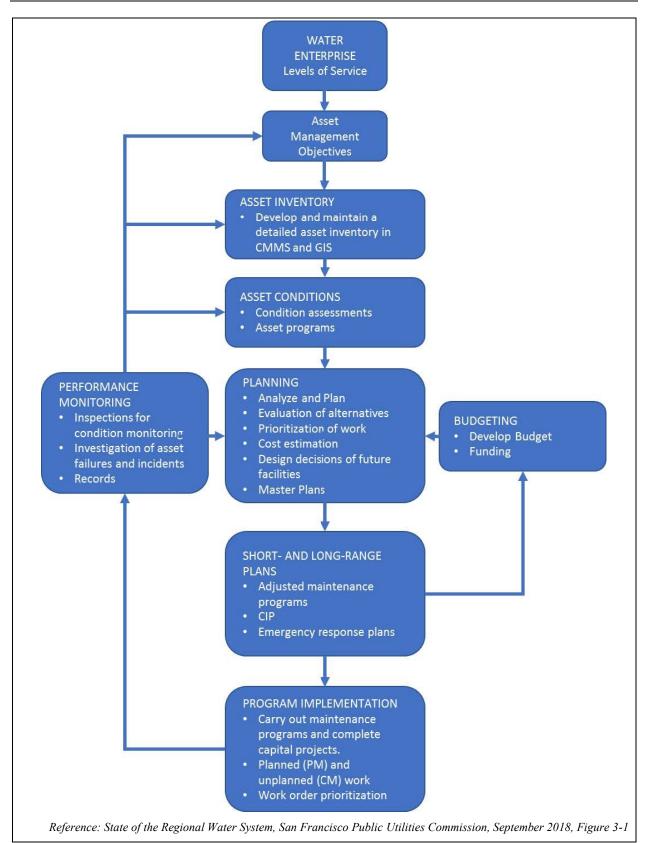


Figure 1. Asset Management Program Intended Processes



SFPUC's asset management objectives are intended to guide capital and maintenance planning and connect daily activities with broader ratepayer expectations. The bullet list below is a summary of the objectives and is included in Table 3-1 of SFPUC's State of the Regional Water System published in September 2018, which notes SFPUC's current status assessment for both the HHWP and the WST Divisions. This document is included in Appendix B.

- Develop and maintain detailed asset inventory
- Regularly complete asset condition assessments
- Use a CMMS to centralize all asset data
- Perform preventative maintenance (PM) and predictive maintenance (PdM) activities and reduce corrective maintenance (CM) activities and unplanned outages where cost effective
- Prioritize PM work to increase system reliability
- Evaluate maintenance programs to conform to industry standards
- Track costs for facilities, assets, and maintenance programs to identify life-cycle costs
- Update the CIP considering asset condition, RUL, failure analysis, replacement costs, maintenance efforts, level of service, and forecasted capital and renewal and replacement (R&R) needs
- Implement failure analysis to identify root cause and implement appropriate mitigation
- Plan facility maintenance to minimize risk to customer service
- Maintain an emergency response plan
- Design future facilities informed by asset management program data.

Together these constitute the SFPUC plan for asset management.



5.0 STAFF INTERVIEWS

West Yost met with staff in both the HHWP and WST Divisions of the SFPUC in January 2020 to discuss each of the 10 evaluation criteria discussed in Section 2. The discussion related specifically to each division individually. Both divisions utilize Maximo by IBM for a CMMS. Maximo is a CMMS with advanced functionality that supports asset management objectives. Staff were presented a series of questions prior to the meetings in preparation for the discussions. The questions are presented in Appendix C. A discussion of the meetings with staff follows.

5.1 HHWP

West Yost met collectively with Margaret Hannaford, Scott Riley, and Cheryl Sperry of the HHWP Division on January 22, 2020 to review the questions presented in Appendix C and discuss the HHWP asset management program. Prior to the meeting, HHWP had prepared written responses to the questions to make discussions more informative. The HHWP response is presented in Appendix D. Appendix E presents detailed notes from the meeting. A summary of the meeting discussion presented by topics covered is provided below.

5.1.1 HHWP Asset Management Overview

HHWP has responsibilities in power generation as well as water production and manages a broad variety of asset types. This encompasses assets in service at dams, pipelines, roads, bridges, powerhouses, and electric substations. Staff interviewed indicated many of the assets are beyond their useful life and are awaiting capital funding. Two years ago, HHWP adopted a more rigorous approach to asset management to ensure efficient implementation of maintenance and capital programs and ensure those programs maintain LOS goals. Staff reports that much of their work is still in progress and includes the following:

- Development of Asset Management Plans (AMPs) for each Asset Category
 - 4 out of 14 total AMPs will be completed in fiscal year 2020
- Assessment and Prioritization of risk assessment tools
 - Replacement based on condition, consequence of failure, and probability of failure
 - Strategy for capital improvement, data collection, and planning processes
- Optimization of Asset Management Program (ISO 55001 standard)
 - Gap Analysis of current asset management programs to the ISO 55001 asset management standard

5.1.2 Asset Registry

There is no formal asset creation process other than for specific asset types that may be repurposed at different locations in the system (known as rotating assets). HHWP has a specific Standard Operating Procedure (SOP). Notwithstanding that, the asset registry is periodically reviewed for updates as staff resources are available. When creating new or modifying old assets there is no quality assurance and quality control process in place to confirm the registry. Capital improvement projects identify new assets, but they are not quickly included in the registry. With limited staff, there is no formal walkdown of assets to confirm the asset registry aligns with assets in the field.



Staff reports the asset registry is 90 to 95 percent complete, with greater than 17,300 assets registered. Assets are defined for inclusion in Maximo by value greater than \$5,000 and if they are a managed maintenance item. Over 9,000 assets are classified with most having descriptive attributes. Horizontal assets have fewer completed attributes than vertical assets. Horizontal assets are identified by pipeline versus a more discrete segment. Staff wants to break this down to a finer segment (node to node). Maximo Linear is a module in Maximo designed for long linear asset types such as rail, roadways, and pipelines and allows flexibility in delineating pipelines. Maximo Linear is not used at HHWP.

A formal asset hierarchy is currently under development and the current structure is mixed and difficult to navigate and roll up. Staff is developing a more refined hierarchy by Area/Place/ Facility/Asset Assembly/Asset which will afford greater flexibility in navigating the registry and reporting. Maximo Systems are in use and allow greater flexibility in organizing assets. The current asset hierarchy is presented in Appendix F. The asset classification attribute domain is presented in Appendix G.

Asset Classifications are managed by each SFPUC Division independently with HHWP following a separate domain than WST. Both classifications and subclassifications are used, giving greater granularity in defining assets. Staff acknowledged that a classification standard between Divisions is needed and desired.

5.1.3 <u>Risk Procedures</u>

HHWP is working on a risk-based capital planning tool. The framework will include LOF and COF, set thresholds and goals/objectives. It is planned to be a Monte Carlo type simulation model that will allow for scenario simulations and mitigation strategies.

Risk data does not reside in Maximo. The risk-based capital planning tool (above) will house all risk data and risk scores will be managed in Maximo allowing easy use for decision-making.

5.1.4 Operation and Maintenance

The HHWP PM program is based on manufacturers' recommendations. The PM program is managed following several SOPs as noted below. These SOPs provide the formal business processes for moving a work order through its life cycle.

- SOP, California Environmental Quality Act (CEQA) Review of Work Orders
- SOP, Preventative Maintenance Request: New or Modification
- Work Order Workflow
- SOP Work Order Approval
- SOP Supervisor Work Order Approval
- SOP Planner Preview of Work Orders
- SOP Work Order Completion
- SOP Bucket Management



- SOP Work Log
- SOP Planner Review
- SOP HSIP Work Order Hierarchy
- SOP Creating an HSIP Work Order
- SOP Priority Codes

Work order planning and scheduling is performed by a group dedicated to this function from 13 different shops. Work is managed and scheduled weekly. A third-party scheduling program is used for work planning and a 16-day look ahead is reported for work management. Backlog management is performed using a Microsoft Excel spreadsheet. Maximo service requests are used for all work requests which are then converted to a work order if further work activities are to be performed. Work order planning includes job plan development and includes labor and materials estimates in Maximo.

Work prioritization follows standard policy MAXSOP-1002. Work status is tracked using the following status categories:

- Waiting Approval
- SAPPR (Supervisor Approved)
- Planner Approved
- Queued (4 to 12 weeks out)
- Approved (up to 4 weeks completion)
- In Progress

Schedule compliance is monitored, and work orders are evaluated for effectiveness and availability by maintenance planners. Effectiveness reflects the accuracy of the planned work to identify if modifications should be made to planned expectations and availability reflects the actual work order performance with respect to meeting planned goals for schedule and resources. This allows maintenance planners to adjust estimates and schedules as needed for future similar work orders.

HHWP has a Predictive Maintenance (PdM) program for transformers, breakers, generator bearings, and the oil pressure sets.

5.1.5 Condition Assessment and Remaining Useful Life

Condition assessment is performed by category groups that include Fixed Assets, Linear Assets, and Dams, each of which are summarized below.

• **Fixed Assets** at facilities are inspected every 1 to 10 years based on desired LOS. Initial inspections are part of routine maintenance activities and as assets move through their life cycle, greater inspections are planned with more detailed data collected. The level of inspection in subsequent inspections is dictated by earlier inspection data. Younger assets and critical assets are assessed as part of routine maintenance.



- Linear Asset inspection frequency is governed by pipeline conditions, ability to isolate the asset, operations concerns, and anticipated condition.
- **Dams** are inspected and monitored with regulatory oversight and staff feels the inspection program is appropriately conservative relative to other asset groups and given the high liability associated with these assets. Regular inspection and monitoring, reporting, maintenance, repairs, and planning studies are completed in coordination with California Department of Water Resources Division of Safety of Dams (DSOD).

The condition assessment program is not developed to include standards for condition rating. There is no policy or guidance for determining RUL although staff has used age and Iowa Curves to approximate this. Both new standards and policies are expected to be included in the asset management plans currently under development.

5.1.6 Replacement Planning

Capital projects are developed on a 10-year rolling plan basis with updates every 2 years. Planning is performed based on institutional knowledge of system requirements for renewal. The risk policy being developed with the creation of the asset management plans will help guide capital project renewal and replacement planning; thus, relying less on staff's institutional knowledge to support decision making.

Internal accounting policies prevent mixing funds and expenditures across water and power but do not prevent R&R funds from being expended on non-R&R needs. As such there is no control policy to prevent dedicated R&R funds from being expended on CIP or maintenance needs.

5.1.7 Service Level

Like replacement planning, the pending asset management plans will develop LOS criteria and goals. Maximo will store LOS goals. The use of goals is expected to support replacement planning decision making efforts.

5.1.8 Connection to Other Plans

HHWP did not provide a response to this section. Discussions during the staff interview confirmed progress towards implementing the objectives of the 2018 State of the Regional Water System Report.

5.1.9 Supply Chain

Purchase Requests and Purchase Orders are managed in Maximo. A dedicated Chart of Accounts governs budgeting. An Item Master is maintained in Maximo and reorder points are established. Staff runs reorder reports to identify restocking needs.

HHWP maintains a warehouse at the Moccasin site and inventory is stored using a defined Row/Bin/Shelf/Rack system. Although there are no other formal warehouses established and no virtual warehouses, informal overflow storerooms space exists. Staff reports that additional space is needed.



Receiving in warehouse management is a process of taking possession of purchased materials, logging the materials into inventory and noting on the Purchase Order that the contracted requirements have been satisfied. Materials are received directly in Maximo where inventory balances are then modified and are issued only to work orders. Returns are processed at the warehouse for restocking and entered back into Maximo. Barcoding of storeroom bins, shelves, etc., is not used.

Warehouses stock primarily consumables with over 2,300 active inventory items. Approximately 75 critical spare items are linked in the Item Master to assets and stocked. Fuel is managed using a system by EJ Ward and data is manually loaded into Maximo.

Material Reservations is a process during the work order planning task to identify materials needed for the work and "reserving" those materials from the warehouse to assure their availability. Kitting is a process of assembling reserved materials for a work order and providing the assembled materials to the work order staff as a package. Together, Material Reservation and Kitting increase efficiency in work performance allowing work order staff to move quickly to the task at hand. Material Reservations are seldom used for work orders and Kitting is not performed. Staff is beginning to consider parts availability versus ordering specifically for the work order during planning.

Inventory controls include annual physical counts by HHWP staff and an external audit every other year. Cycle counts are performed weekly with monthly balance reports. All counts are blind, meaning the person performing the counting does not know the desired quantity and enters the count into Maximo not knowing if it matches that on record.

5.1.10 Staff Plan

HHWP Asset Management Services include the following positions,

- 0931 Asset Management Services Manager (1)
- 7262 Asset Planner (2)
- 7263 Planning and Scheduling Manager (1)
- 7262 Maintenance Planner (4)
- 7219 Maintenance Scheduler (2)

Materials Management/Warehouse Operations include the following positions:

- 1944 Materials Coordinator (1)
- 1942 Assistant Materials Coordinator (2)
- 1931 Senior Parts Storekeeper (3)

Staffing needs are comprehensively evaluated each two-year budget cycle.



5.2 WST

West Yost met collectively with Angela Cheung, Edward Forner, and Annie Li of the WST Division on January 24, 2020 to review the questions presented in Appendix C and discuss the WST Division asset management program. Appendix H presents detailed notes from the meeting. A summary of the meeting discussion presented by topics covered is provided below.

5.2.1 Asset Registry

Maximo is used as the registry for managed assets. The initial Maximo registry was established in 1999 when Maximo was first brought online and was loosely imported from a previous database. At that time, staff performed data scrubbing, although data standards did not exist. The Maintenance Planning Group adds and modifies assets and is the registry owner with sole permission to add or modify assets and attributes. Maintenance Planning works with Maintenance Engineering and capital project teams to import new assets and equipment data sheets that come from capital projects into Maximo.

Maintenance Planning is currently working closely with the System Operations group to field verify asset inventory at select facilities and make updates and corrections to the asset registry at these facilities as necessary with the goal of going through all WST treatment facilities in the next couple of years. This process includes creating and standardizing PM records, and developing and standardizing job plans for similar assets. WST expects to add 3,000 to 4,000 assets that were part of WSIP to the asset registry as a result of this effort. Fixed assets make up the majority of the assets in Maximo for WST assets.

Quality control is typically implemented during asset creation and is not performed as regularly when the registry is updated with new data. No formal program exists to update the asset registry and assets are evaluated for completeness as staff resources are available. Updates are also made when field staff report errors.

Capital projects are the primary source for identifying new assets. An equipment list (Equipment Data Sheet) is prepared during the project implementation. The information is provided to Maintenance Planners who import the new assets and their attributes into Maximo as part of startup. Staff reports that approximately 10 percent of the Equipment Data Sheets are reviewed for quality control. Staff wants to incorporate more asset identification and loading during the design process.

The asset registry is about 80 to 85 percent complete and includes approximately 13,000 assets. Approximately 3,000 to 4,000 assets are not registered. The asset registry is being updated to create additional classifications and attributes and staff is focusing on populating more attributes. The asset registry hierarchy currently follows a Location/Process/Equipment structure. A policy from 2010 governing classifications and hierarchy is presented in Appendix I. Staff reports this policy is followed most of the time but is outdated in meeting current asset management practices. WST management retained a consultant to work with Maintenance Planning, Maintenance Engineering and System Operations to update existing policy including development of an expanded hierarchy structure, capturing additional attributes, and improving the equipment data sheets with a focus on new assets and attributes being readily importable into Maximo to avoid delays in the assets getting into Maximo following the completion of capital projects. The updated policy is expected to be completed in summer of 2020.



Staff follows the WST CMMS Business Practices Policy (2011) that includes procedures for the following:

- Work order initiation
- Supervisor responsibilities
- Work order backlog tracking
- Work order closeout
- Key Performance Indicators (KPI) and monthly reporting
- Work order authority and role-based permissions
- Work order review and approval
- Condition assessment
- Purchasing

This policy is being updated. It is included in Appendix J.

A 2008 Policy defines assets as greater than \$5,000 value for Finance purposes. In practice, however, there are assets valued lower in the registry due to asset criticality, maintenance needs, run-to-fail assets, and regulatory requirements. Lock-Out Tag-Out assets are not considered. Staff is updating asset definition standard which will include the elimination of run-to-fail assets in Maximo.

5.2.2 Risk Procedures

WST does not follow a formal risk policy or risk rating of assets. Work order priority follows a 9-level scale and is based on work type and institutional knowledge of the asset. Staff does formal planning of work using collaboration and institutional knowledge.

Criticality is evaluated at the Facility/Process level during the bi-annual budgeting process. This consists of an informal rating of project priority following a 1-2-3 priority scale (1 = Safety/Regulatory, 2 = Operationally required, 3 = Desirable).

Some assets are flagged as critical in Maximo but not based on a formal assessment.

5.2.3 Operation and Maintenance

PM and PdM programs generally follow manufacturer specifications and institutional knowledge of the asset. PMs are run-time and calendar based as well as regulatory based. Regulatory related PMs are given high priority. SCADA is not integrated with Maximo, so run-time and other asset-related data are manually loaded into Maximo. Maintenance Planners create and manage PMs in Maximo.

The CMMS Business Practices Policy does the following:

- Uses a 9-level priority hierarchy
- Classifies work type (Corrective, Preventative, Administrative, Operations and Project)
- Identifies role-based responsibilities



- Documents backlog management
- Establishes work order status tracking standards

A copy of the CMMS Business Practices Policy is included as Appendix J. Work is manually planned and scheduled, and backlog is managed by maintenance supervisors. Maximo workflow is not used.

Reporting is used to identify follow-on or corrective work and modify maintenance plans. Asset performance data is used for life cycle management and not maintenance management. Instead, maintenance field staff use institutional knowledge for decision-making. Staff would like a more data-centric approach to maintenance related decision-making. Currently, PdM work orders are only prepared for Vibration Analysis. Labor and materials data are logged or captured against a work order or asset, but not tool data.

5.2.4 Condition Assessment and Remaining Useful Life

Condition assessment is performed by category group: Linear Assets and Vertical Assets. Each are summarized below.

5.2.4.1 Linear Assets

Linear Assets are assessed according to the following schedule:

- Tunnels 20 years,
- Steel pipe 20 years,
- Pre-stressed Concrete Cylinder Pipe (PCCP) 10 years

Over the past 10 years, assessments have occurred less frequently due to the implementation of the Water System Improvement Program (WSIP) which has consumed staff resources and also replaced many assets. Now that the WSIP is nearly completed, the asset inspection program has resumed.

Inspections typically consist of electromagnetic analysis, visual inspection, and sounding. Acoustic listening technologies also are used for leak detection. Staff has developed its own electromagnetic condition assessment solution for pipelines and performs many of the pipe lining and structural repairs in-house with staff. The Sunol Facility has plate rolling equipment for repairing PCCP. Contractors are also available and perform lining and other repairs as needed.

Staff report that WST has good emergency preparedness measures in place with a lot of pipe stockpiled in and around the service area.

5.2.4.2 Vertical Assets

Vertical Assets were last inspected in 2009 although periodic, informal assessments are ongoing. Stationary engineers, house plumbers, electricians and electronic maintenance technicians perform routine PMs and as part of that work perform informal condition assessments. As noted earlier, WSIP renewed a considerable amount of infrastructure.



Asset condition is not noted in the asset registry in Maximo but is documented in separate reports or memoranda. Staff recognizes they are not where they want to be on condition assessment and want a more robust methodology. The asset management policy update will include a more analytical procedure to analyze and report asset condition to plan for asset replacement and refurbishment.

5.2.5 Replacement Planning

R&R funding is maintained by facility (Harry Tracy Water Treatment Plant, Sunol Water Treatment Plant, Field Facilities). Staff uses a collaborative methodology for determining replacement needs based on institutional knowledge. Risk and level of service goals are considered. As needs are identified, rates are adjusted, and the R&R fund is maintained. The finance division determines whether and how much cost for R&R can be included in rates and the amount of debt financing.

5.2.6 Service Level

Service level goals are currently not developed or used.

5.2.7 Connection to Other Plans

The Fiscal 2020 Strategic Plan has a goal to provide reliable service and value to customers. Several asset management related objectives were identified. These are identified in Table 3 with a description of WST's implementation as provided from WST staff.

Table 3. Asset Management Objectives and WST Response			
Fiscal 2020 Strategic Plan Asset Management Objectives	WST Response		
Establish quantifiable operational and capital LOS goals by enterprise.	Quantifiable Operational and Capital LOS goals by enterprise is a Commission-level objective. WST has not defined LOS goals separately.		
Formalize our asset management approach across SFPUC.	There is no formalized approach to asset management other than to use Maximo. There is a culture of collaboration which does support asset management.		
Establish a uniform investment prioritization process linked to asset management priorities across SFPUC.	Prioritization is done during the CIP process but does not utilize uniform prioritization guidelines.		
Ensure SFPUC can mitigate, respond to, and recover from threats from disasters.	Risk and Resiliency Assessment (RRA) has been completed. WST has emergency response procedures and plans in place, and two emergency interties with neighboring water agencies. Emergency Mutual aid is in place through participation in the California Water/Wastewater Agency Response Network (CalWARN).		

5.2.8 Supply Chain

Purchase Requests and Purchase Orders are managed in Maximo. The Purchase Request is initiated in Maximo and approved in the finance system (Oracle PeopleSoft). Warehouse management is in Maximo. Warehouses stock primarily consumable, and not asset-related, materials. Spare parts are stored at individual facilities outside of warehouse and inventory control

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management. Inventory of spare parts is managed by individual work crews in System Operations and the trades on both sides of the bay. Tools are managed in Maximo and issued to work crews.

Materials are received at the central warehouse in Millbrae and are directly entered into Maximo. Materials sent out of the warehouse are issued to staff only through work orders. Returns are processed at the warehouse and restocked back into Maximo. Material reservations are not used for work orders and kitting is not performed. Staff practices for stocking spare parts vary between the different work crews and trades.

Inventory controls include annual physical counts by non-WST, City of San Francisco staff and losses are noted in finance shrinkage codes. Cycle counts are not performed.

5.2.9 Staff Plan

WST Asset Management Services comprises of engineering, maintenance, and operations.

5.2.9.1 Asset and Materials Management

- Maintenance Planning Manager (1)
- Asset Planners (3)
- Senior Parts Storekeeper (1)
- Storekeeper (3)

5.2.9.2 Engineering

- Two mechanical engineers and one electrical engineer support troubleshooting.
- Dam Management/Right-of-Way Management/USA and GIS.

5.2.9.3 Maintenance

Maintenance Staff are all certified operators.

- One Maintenance Manager, Three Maintenance Planners
- No Warehouse Management staff
- Electricians and Technicians.

5.2.9.4 Operations

• Stationary Engineers

5.3 Information Technology Response

West Yost did not meet with the IT Division of SFPUC but submitted a list of questions that the IT Division provided a written response to West Yost. Due to security concerns, not all questions could be provided a response; however, West Yost does not feel this limits the effectiveness of the assessment. The IT Division response is provided in Table 4.



	Table 4. IT Division Response to Questions						
Question	IT Division Response						
List of software tools such as Maximo, GIS, InfoAsset, etc. including version	Maximo Asset Management version 7.6.0.9, Interloc Informer v5.6.3 and Prometheus DataSplice v5.2 products are used for mobile access to Maximo. PUC Enterprise GIS - ArcGIS Platform 10.6.1, with ArcGIS Mobile Survey123v13.3 and Collector v18						
Integration map of software tools	<u>Maximo</u> is integrated bidirectionally with the *PUC's Billing system to receive work orders and send back work order updates, and the *SF City Financial system to send up purchase reqs and receive posted POs. Maximo also interfaces bidirectionally with the SF 311 Customer Service system. Both *311 for the customer call and *Maximo for the call response are the systems of record in that interface. The same is true with the PUC Time Entry system bidirectional integration, *Maximo provides the work orders for which time is posted against in the *Time Entry system and the posted time is sent back to Maximo for asset and maintenance cost analysis. The PUC BI system reads information from the *Maximo database for enterprise reporting for asset information and maintenance work. Maximo receives data inbound from the *PUC SCADA Historian system to generate work orders based on operating parameters and inbound from the *PUC Fleet Mgmt and Fuel system to generate work orders based on mileage and maintain inventory of fuel stock for inventory valuation, replenishment ordering and receiving. Maximo also receives asset data from another *SF City department's GIS system contracted by PUC to maintain GIS asset data for a non-Water PUC division. *Maximo also has a small integration with another *SF City department's CMMS system to submit work requests and receive updates on work submitted. <u>The PUC Enterprise GIS system</u> reads information from *Maximo, *PUC Billing system and *Sharepoint system to include on various map services.						
Modules for software tools listed above	<u>Add-On Maximo modules</u> : Maximo Transportation7.6.2.4, Maximo Spatial 7.6.0.3 and Maximo Linear 7.6.0.2 are installed. Maximo Scheduler 7.6.7 will be installed in the near future. A project to evaluate a new Maximo GIS integration product will begin later this year. We have 2 -3rd party products installed: CiM Visual Planner work scheduling product and MaxGrip strEAM+, an RCM product. AspenTech's Mtell product is used to send SCADA historian data to Maximo. <u>PUC Enterprise GIS Add-On Modules</u> : Spatial analysis, network analysis, geocoding services, 3D analysis, ETL.						
Discovery Tools in use for hardware and software	Would need to pass by IT Security Manager before providing this.						
Mobile connectivity Platform	Mobile access via Panasonic Toughbook Windows PCs, Lenovo Thinkpads, Apple iPads, iPhones.						
Staff count and title dedicated to management of Asset Management hardware and software management	1.5 FTE - Principal IS Engineer, 2 FTE - Senior IS Engineers, 1 FTE- Senior Business Analyst, 1 FTE - Senior Programmer/Analyst.						
*BOLD FACE – Indicates sy	stem of record						



6.0 CONCLUSIONS AND RECOMMENDATIONS

Please see West Yost conclusions and recommendation listed below.

6.1 Conclusions

Table 5 summarizes West Yost's conclusions regarding the state of Asset Management activities for the HHWP and WST Divisions of the SFPUC. The conclusions drawn are our professional opinion based upon review of data submitted and the interviews conducted with select agency staff members. Conclusions are provided for each Division by the criteria developed for this analysis and scored based on the capability maturity model described in Section 3.

6.2 Recommendations

West Yost has developed recommendations for enhancements to SFPUC Asset Management Program. This Phase 1 audit represents a qualitative evaluation of the asset management principles and practices at SFPUC. It was based on a review of an assembly of documents provided by SFPUC and staff interviews and identified preliminary areas that could be improved to yield efficiencies that will result in long term life-cycle cost reductions. Many of these recommendations are currently being implemented by HHWP and WST in its efforts to address risk and will take time to complete. West Yost did not provide an analysis of staffing levels; therefore, the category of Staffing to Support Asset Management is not included in Table 6. Recommendations to improve the asset management program at SFPUC are included in Table 6.



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Table 5. Evaluation Conclusions Summary								
Criteria	Sub criteria	Description	HHWP	WST				
	Business Processes for Asset Creation and Modification	Business Processes are developed and followed such that asset registry is maintained at highest level of accuracy.	Asset Registry is not regularly updated, and quality control of the asset registry is not performed at a high level. Initial Level	Asset Registry is not regularly updated, and quality control of the asset registry is not performed at a high level. Initial Level				
	Asset Registry	Asset Registry is complete and represents an appropriate cross-section of assets.	Asset Registry is 90 to 95% complete. This represents a good completion level. Repeatable Level	Asset Registry is 80 to 85% complete. This represents a good completion level. Repeatable Level				
	Asset Registry Hierarchy	Asset Hierarchy is well defined and provides sufficient detail to assess cost, risk and work at multiple levels.	Asset Hierarchy is well defined. Staff are currently modifying the asset hierarchy. Repeatable Level	Asset Hierarchy is well defined. Staff are currently modifying the asset hierarchy. Repeatable Level				
Asset Registry	Asset Classification Domain	Asset Classification structure is sufficiently detailed to define assets individually by type without significant generalization.	Asset classification domain is well defined. Defined Level	Asset classification domain is well defined. Defined Level				
	Asset Attribute Domain	Asset attributes are detailed by classification to provide sufficient asset data and knowledge	Asset classification attribute domain is well defined Defined Level	Asset classification attribute domain is well defined Defined Level				
	Asset Definition	A definition of an asset, for the purposes of asset management planning, exists and is used to develop the asset registry	Assets are defined primarily based on value and do not include other parameters. Initial Level	Assets are defined primarily based on value and do not include other parameters. Initial Level				
	Policy for updating asset registry	A policy is in place that provides for the review of the asset registry and updating on a regular basis	Policy does not exist for the review and updating of the asset registry. Initial Level	Policy does not exist for the review and updating of the asset registry. Initial Level				
	List of software tools such as Maximo, GIS, InfoAsset, etc. including version		The version of Maximo (7.6.0 behind on their update versio 7.6 version. Remote access a and an industry standard. IT integrating Maximo with GIS. Managed Level	ns but still within the primary and GIS software are current				
	Data Flow Diagram A data flow diagram is in place that documents integrations between asset management software tools. Maximo is the main interface sour reporting. The SCADA historian i to support time-based work order WST staff reported that this integration of the source of		ate maintenance and an is integrated with Maximo rder generation. HHWP and ntegration did not exist,					
IT Capabilities to Support AM	Modules for software tools		Many Maximo modules are installed and available for us including Transportation, Spatial (GIS), and Linear (pipeline and roads). Other third-party products are in place. Managed Level					
	Discovery Tools	Discovery Tools are in use for hardware and software	Discovery tools are in place. Managed Level					
	Mobile connectivity Platform	Mobile computing is in use on a reliable network system.	Mobile computing tools and s Managed Level	ystems are in place.				
	IT Staffing dedicated to Asset Management Systems	Sufficient staff positions are authorized and filled that are dedicated to management of Asset Management hardware and	4.5 full time equivalents (FTE business analysts and engine Managed Level					

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	Table	e 5. Evaluation Conclu	sions Summary		
Criteria	Sub criteria	Description	HHWP	WST	
		software management. Vendors are contracted for support as needed.			
	Infrastructure replacement and refresh policy	A policy is in place for the replacement of aging IT infrastructure including hardware and software dedicated to asset management.	Replacement policy is industry standard. Managed Level		
	IT budget for asset management hardware and software support.	Sufficient budget is allocated for IT hardware, software and staff	\$300,000 per year budgeted support periodic software upg upgrades. Defined Level		
	LAN/WAN Platforms (diagram/map)	Local and Wide Area Network plans are developed that document network configuration.	LAN/WAN mapping exists. Managed Level		
	Patch Management Plan	A Patch Management Plan is in place and is followed to keep software products current to achieve optimum performance.	The patch management plan is an industry standard. Managed Level		
	Security Plan - Public/Private access, Firewall	A Security Plan is in place that provides security against cyber threats.	Security policies exist. Managed Level		
	Risk Policy	A Risk Policy is in place that interprets Criticality and Condition to develop Risk Ratings for assets as well as defines thresholds for action based on Risk.	A risk policy does not currently exist. A risk policy is currently being developed for HHWP. Initial Level	A risk policy does not currently exist. Initial Level	
	Business Process for Criticality Assessment	A structured process is in place to evaluate system and asset criticality.	A risk policy does not currently exist. A risk policy is currently being developed for HHWP. Initial Level	A risk policy does not currently exist. Initial Level	
Risk Procedures	Description of Risk management tools currently in use	Risk assessment tools exist and are used to evaluate criticality and condition of assets and systems.	A risk assessment tool does not currently exist. A risk assessment tool is currently being developed for HHWP. Initial Level	A risk assessment tool does not currently exist. Initial Level	
	Risk Register	A Risk Register is in place for all systems and assets.	A formal risk register does not exist. Initial Level	A formal risk register does not exist. Initial Level	
	Criticality criteria and definitions	Criticality criteria and definitions are in place.	Criticality is not defined.	Criticality is not defined.	
	Maintenance Management	Preventative maintenance activity is performed as required by the manufacturer or the specific asset performance.	Preventative maintenance is performed as required by the manufacturer. Repeatable Level	Preventative maintenance is performed as required by the manufacturer. Repeatable Level	
Operation and Maintenance	Maintenance Management	Predictive maintenance activity is performed as required by the manufacturer or the specific asset.	Predictive maintenance is not currently performed. Initial Level	Predictive maintenance consisting of vibration monitoring is performed. Repeatable Level	
	Maintenance Management	Business Processes exist for work and maintenance management	Business processes exist for work and maintenance management.	Business processes exist for work and maintenance management.	



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	Table	e 5. Evaluation Conclu	sions Summary	
Criteria	Sub criteria	Description	HHWP	WST
			Repeatable Level	Repeatable Level
	Maintenance Management	Asset performance data are collected and available for analysis.	Asset performance data are not collected. Initial Level	Asset performance data are not collected. Initial Level
	Work Management	Work is performed efficiently based on asset and work prioritization.	Work is prioritized based on a 9-level priority index. Defined Level	Work is prioritized based on a 9-level priority index. Defined Level
	Work Management	Work Management data are collected and available for analysis	Work management data are collected and used to modify Preventative Maintenance Plans and work performance efficiency. Defined Level	Work management data are not collected. Initial Level
	Business Process for Condition Assessment	A structured process is in place to evaluate system and asset condition.	A process is in place to assess asset condition at a regular interval. Actual condition assessment has not kept up with the prescribed schedule due to staff/budget limitations. Repeatable Level	A process is in place to assess asset condition at a regular interval. Actual condition assessment has not kept up with the prescribed schedule due to staff/budget limitations. Repeatable Level
	Condition criteria and definitions	Condition criteria and definitions are in place.	There is no definition or criteria for asset condition. Initial Level	There is no definition or criteria for asset condition. Initial Level
Condition Assessment and Remaining Useful Life	RUL	Policy, procedures and criteria for estimating RUL of assets are in place and RUL assessments are performed in accordance with the policy.	There is no formal policy to assess remaining useful life. HHWP has utilized industry curves in the past. Initial Level	There is no formal policy to assess remaining useful life. Initial Level
	Policy for updating RUL	A policy is in place that provides for the review of estimated RUL of assets on a regular basis.	A policy is not in place to evaluate remaining useful life. Initial Level	A policy is not in place to evaluate remaining useful life. Initial Level
	Condition Assessment Register	Asset condition is monitored in the asset registry.	Asset condition is monitored in Maximo. Repeatable Level	Asset condition is captured in various condition assessment reports. Initial Level
	Rehabilitation and Replacement Planning	Infrastructure rehabilitation and replacement planning methodology is in place and planning is conducted in accordance with the methodology.	Replacement planning is performed biennially as part of budget preparation and CIP planning. There is no formal replacement planning program in place. Repeatable Level	Replacement planning is performed biennially as part of budget preparation and CIP planning. There is no formal replacement planning program in place. Repeatable Level
Replacement Planning	Rehabilitation and Replacement Funding	A funding plan is in place and maintained for infrastructure rehabilitation and replacement.	Funding for infrastructure renewal is via rates and identified during biennial CIP planning. Repeatable Level	Funding for infrastructure renewal is via rates and identified during biennial CIP planning. Repeatable Level
	Rehabilitation and Replacement Expenditure Policy	A policy for the expenditure of rehabilitation and replacement is in place and funds are allocated in accordance with the plan.	Dedicated funds for asset renewal do not. Initial Level	Dedicated funds for asset renewal do not exist. Initial Level
Service Level	Service Level definitions for asset management	Service Level goals are defined and applied to each asset as appropriate.	Formal LOS criteria and goals do not exist but will be developed with asset management plans. Maximo will store LOS. Repeatable Level	LOS criteria and goals exis for facilities but not for assets. Initial Level

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Table 5. Evaluation Conclusions Summary									
Criteria	Sub criteria	Description	HHWP	WST					
Connection to Other Plans	Capital Improvement Plan	Asset Management plan elements and principles are an integral part of other planning documents where asset renewal, funding and replacement are considered.	Of the Fiscal 2020 Strategic Plan Asset Management Objectives only LOS goals are being developed. The remaining goals include developing a uniform approach to asset management across the utility, develop an investment process and manage threats. Of these a uniform approach to asset management is not in place or under development for both HHWP and WST and an investment policy tied to asset renewal is not in place. Threat management is not formally addressed. Initial Level	Of the Fiscal 2020 Strategic Plan Asset Management Objectives only LOS goals are being developed. The remaining goals include developing a uniform approach to asset management across the utility, develop an investment process and manage threats. Of these a uniform approach to asset management is not in place or under development for both HHWP and WST and an investment policy tied to asset renewal is not in place. Threat management is, however, being formally addressed with a risk and resiliency assessment and the formalization of mutual aid programs. Repeatable Level					
	Business Process and Policy for Supply Chain	Business Processes and Policies for Supply Chain are in place and followed.	Business processes for supply chain are in place. Defined Level	Business processes for supply chain are in place. Defined Level					
	Item Master Export	Item Master is developed and applied to assets in the asset registry	An Item Master exists. Defined Level	An Item Master exists. Defined Level					
Supply Chain	Warehouse Management	Warehouses (virtual or physical) exist with inventory managed in logical rows, shelves, bins, etc.	A Warehouse is established and configured for logical materials storage. Defined Level	A Warehouse is established and configured for logical materials storage. Defined Level					
	Warehouse Management	Supply chain processes are connected to the Work Order.	Materials are issued to the work order. Defined Level	Materials are issued to the work order. Defined Level					
	Warehouse Management	Parts are reserved against work orders	Parts are not reserved against work orders. Initial Level	Parts are not reserved against work orders. Initial Level					
	Warehouse Management	Physical and Cycle Counts are performed at regular intervals.	Annual physical counts are performed. Monthly cycle counts are performed. Managed Level	Annual physical counts are performed. No cycle counts are performed. Defined Level					
Staffing to Support Asset Management	Staff matrix and job description	Staff matrices and job descriptions dedicated to support work and asset management exist	A staffing plan with appropriate staffing levels for work, asset and warehouse management exist. The staffing level appears to be appropriate. Defined Level	A staffing plan with appropriate staffing levels for work, asset and warehouse management exist. The staffing level appears to be appropriate. Defined Level					

Table 5. Evaluation Conclusions Summary



Table 6. SFPUC Asset Management Recommendations							
Recommendations	Asset Registry	Risk Procedures	Operation and Vlaintenance	Condition Assessment and Remaining Useful Life	Replacement Planning	Service Level	Supply Chain
Enhancements to SFPUC's Current Asset Management Planning			0 2	0 8		07	
Develop a uniform approach to risk assessment including consequence of failure and likelihood of failure definition, risk definition, and risk thresholds and develop a policy for application across the entire utility. This can be achieved by completing the development of the risk framework and risk assessment tool for HHWP and including WST.		x					
WST join in the ISO-55001 Gap Analysis and asset management planning that HHWP is conducting.	х	х	х	х	х	х	
Near Term, One to Three Years							
Combine all work and asset management standards for uniform application to HHWP and WST uniformly. Abolish standards and procedures specific to one Division.	x	x	х	х	x	x	x
Develop a policy and process to review the asset registry in Maximo for accuracy. Maximo should have current, existing assets properly classified and documented with appropriate attributes. This review and update should be conducted at least every 5 years.	x						
Complete the development of the asset hierarchy, classification and attributes and apply new structure to both HHWP and WST uniformly.	х						
Review and update current asset definition policy. Policy should consider not only asset value but asset criticality, maintenance requirements, and participation in Lock-Out Tag-Out operations.	x						
Develop a uniform policy and business processes for work management, asset creation and modification, and work prioritization. This uniform policy should be developed as a utility standard for application to HHWP and WST collectively.			х				
Participate in, or increase participation in, the Northern California Maximo User Group (NorCal MUG). NorCal MUG meets bi-annually to confer on best practices in the use of Maximo and includes presentations by users, consultants, and IBM.	x	х	х	х	х	х	х
Long Term, Three to Five Years		-					-
Evaluate asset criticality at least every five years, after a major CIP or when a significant modification to a system is implemented.		х					
Maintain a risk register in Maximo noting the total risk score and the criticality and condition score.		х					
Configure Maximo for automated workflow processes for work and maintenance management.			х				
Develop a policy and method for estimating remaining useful life.				Х	Х		
Develop a replacement planning program to forecast asset renewal needs and costs. Link this forecast to the establishment of utility rates. Use this forecast to inform CIP planning efforts.	x			х	x	х	
Develop LOS criteria and goals and connect maintenance planning with LOS requirements by asset as identified as a Fiscal 2020 Strategic Plan Asset Management Objective.			х		x	x	
Develop a uniform investment process linked to asset management priorities across the utility as identified as a Fiscal 2020 Strategic Plan Asset Management Objective.				х	х		
Formalize the asset management approach uniformly across the utility as identified as a Fiscal 2020 Strategic Plan Asset Management Objective.	х	х	х	х	х	х	
Develop a formal warehouse management plan to be applied to both HHWP and WST. The plan should renew business processes and policies for inventory counts and reconciliation, establish procedures for maintaining critical spare parts that can be shared between HHWP and WST.							x

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Table 6. SFPUC Asset Management Recommendations								
Recommendations	Asset Registry	Risk Procedures	Operation and Maintenance	Condition Assessment and Remaining Useful Life	Replacement Planning	Service Level	Supply Chain	
Evaluate spare parts lists and begin stocking spare parts in the warehouse for asset maintenance work.			Х				х	
Eliminate the practice of undocumented storerooms with "invisible" inventory that is not valued or carried in the finance ledger.							х	
Phase 2 Audit Recommendations								
Evaluate SFPUC's use of Maximo as a work and asset management tool. This includes evaluated Maximo's asset registry, maintenance management, supply chain, workflow, and other modules.	x	х	х	х	х	х	х	
Participate in the HHWP effort to complete the ISO-55000 gap analysis and establish asset management plans, risk management policies and the risk management tool. This will allow BAWSCA to follow the development of the program versus waiting for a post-implementation review and will keep BAWSCA informed of progress towards completion of the gap analysis and SFPUC asset management principles and policies.	x	х	x	х	х	x	x	

APPENDIX A

BAWSCA Asset Management Audit SFPUC Compiled Comments with West Yost Responses

				BAWSCA Asset Management Audit SFPUC Compiled Comment	s with West Yost Comments
Comment No.	Chapter	Section	Page Number	SFPUC Comments and Planned Edits	West Yost Response
1	1.0	1.0	1	The entire water system is named the Hetch Hetchy Regional Water System. Therefore, the sentence should read "The divisions are the Hetch Hetchy Water and Power (HHWP) Division, responsible for operating the Hetch Hetchy Regional Water System east of Tesla, and the Water Supply and Treatment (WST) Division, responsible for operating the Hetch Hetchy Regional Water System at Tesla and west of Tesla."	Noted, we will make this clarification in the final report
2	1.0	1.3.1	5	"Maintenance practices are developed and maintenance is being performed." HHWP does have additional information demonstrating the coordination and scheduling of maintenance activities, including the metrics for measuring schedule performance. We also have additional information demonstrating critical facility reliability and availability.	Acknowledged. No change to text needed. Acknowledged. horizon recommendations may be modified longer.
3	1.0	1.3.2.2	6	In general, the near term recommendations do not appear achievable within a one year time frame at current levels of staffing.	We will edit the final report to read Near Term within 1 to 3 years and Long Term within 3 to 5 years.
4	1.0	1.3.2.2	6	Develop a policy and process to review the asset registry in Maximo for accuracy. "Good recommendation and will likely be a recommendation in our ISOSSOD toga analysis. Note for your interest that his top of review is currently taking place at WST. This newer came up in the interview so West Yost may be unawere of current WST efforts. The estimate is it would lake a couple of years to completely review all WST assets in Maximo. This process involves more than an asset registry update. It is also getting job plans standardized and streamlined. The effort currently underway is expected to add 3,000 to 4.000 assets into Maximo.	Acknowledged. No change to text needed.
5	1.0	1.3.2.2	6	This review and update should be conducted at least every 5 years." Once the asset registry is complete, is should only need to be re-assessed after major CIP projects or other significant changes. It would be more appropriate to conduct as needed.	We caulion that assets can be removed from service and replaced for reasons other than capital improvement projects. This can occur during routine maintenance activities and not properly captured in Maximo. For this reason West Yost suggest an audit at a regular interval such as every 5 years. We will revise the final report to read "It is recommeded SFPUC perform a review and update of its asset registry at approximately five-year intervals"
6	1.0	1.3.2.2	6	"Complete the development of asset hierarcy, classification, and attributes and apply new structure to both HHWP and WST uniformly." Please refer to the commant made in the cover letter. When considering the costs of standardization, SFPUC does not currently think it is worthwhile.	West Yost advocates continually searching for opportunities to align strategies and agrees there is a cost. This applies to configuration and standardization. But there are many potential benefits to a unified asset registry that have the potential to improve asset management efficiencies and cost savings. A unified approach provides greater overall collaboration between staff when both systems use the same configuration. Consistent classifications and attributes allow for shared data and metrics such as profiling equipment failure, equipment standards sharing of inventory stores. -a unified standard can be more efficient to develop and maintain than separate standards for the same segment of the system. -Note that formalizing the asset management approach uniformly across the utility was mentioned in the Fiscal 2020 Strategic Plan Asset Management Objectives We will edit the final report to read: "It is recommended SFPUC look for opportunities to align its asset hieracy, classification and attributes for both HHWP and WST. Formalizing the asset management approach uniformly across the utility was mentioned in the Fiscal 2020 Strategic Plan Asset Meracy Plan Asset to align its asset hieracy, classification and attributes for both HHWP and WST. Formalizing the asset management approach uniformly across the utility was mentioned in the Fiscal 2020 Strategic Plan Asset Menagement Objectives. Further a unified approach provides: 1) greater overall collaboration between staff when both systems use the same configuration. 2) consistent classifications and attributes allow for shared data and metrics such as profiling equipment failure, equipment standards sharing of inventory stores, and 3) a unified standard can be more efficient to develop and maintain than separate standards for the same segment of the system."
7	1.0	1.3.2.2	6	"Review and update current asset definition policy. Policy should consider not only asset value but asset criticality, maintenance requirements, and participation in Lock- Out Tag-Out operations." WST's policy already includes criticality and maintenance requirements in the current asset definition. However, we have regulatory and safety requirements and not participation in LOTO operations as the additional criteria. We have small PVC ball valves that are part of LOTO all the time but that does not mean they should be assets in Maximo. On the other hand, low value assets in the aqueous ammonia system are in Maximo because of CaIARP compliance.	The focus of this recommendation is to develop a definition for assets that are to be managed programmatically and using Maximo. This applies to assets to be maintained, assets that pose certain risk threshold, assets that may have a minimum value and assets to be used of roisolation or LOTO. We understand that other policies adverse LOTO, however, Maximo can be used to consolidate to a single asset registry with comprehensive listing of assets for all management needs. We will edit the report to read: "Review and update current asset definition policy. Policy should consider not only asset value but asset criticality and maintenance requirements. While SFPUC manages LOTO through its existing regulatory and safety policies, SFPUC should consider also including LOTO in the asset definition policy."
8	1.0	1.3.2.2	6	"Participate in, or increase participation in, the Northern California Maximo User Group." SFPUC has participated in the past but hasn't found it to be very worthwhile.	We will remove this recommendation from the final report.
9	1.0	1.3.2.3	7	"Maintain a risk register in Maximo noting the total risk score and the criticality and condition score." We think risk scores should be developed for a subset of assets in Maximo, but not for the tens of thousands of assets these two divisions currently maintain.	We will edit the report to read: "Maintain a risk register in Maximo noting the total risk score and the criticality and condition score. This can be addressed simply using the asset hierarchy with criticality evaluated at the process or subprocess level with child assets inheriting the criticality. Condition can then be evaluated for assets with higher criticality."
10	1.0	1.3.2.3	7	Configure Maximo for automated workflow processes for work and maintenance management. This makes sense for some assets where review and administration is required. We agree with the statement in those cases and intend to use workflow processes where it provides value to the process.	We will edit the report to read: "Configure Maximo for automated workflow processes for work and maintenance where minimum data collection points are required and where process efficiencies may be increased"
11	1.0	1.3.2.3	7	"Implement the Fiscal 2020 Strategic Plan Asset Management Objectives to develop LOS criteria and goals and connect maintenance planning with LOS requirements by asset." We think you mean that there should be recognition of how each asset may contribute to meeting the existing enterprise-wide LOS goals. We do not think that each individual asset should have an LOS goalinequirement. Please clarify.	We acknowledge assessing LOS for individual assets can be datunting. However, each asset can and should have a level of service goal. Although it doesn't nocessarily need to be spacifically developed for the asset as it can be inherited with input from LOS goals higher in the assets hierarchy. Note the measure of asset failure is related to the assets ability to perform at its intended level of service. We will edit the report to read: "Implement the Fiscal 2020 Strategic Plan Asset Management Objectives to develop LOS criteria and goals and connect maintenance planning with LOS requirements by asset. LOS goals can be inherited from higher process or subprocess levels in the asset hierarchy to reduce the analysis required."
12	1.0	1.3.2.3	7	"Eliminate the practice of undocumented storerooms with "invisible" inventory that is not valued or carried in the finance ledger." Staff thinks it may be better to spend our energy improving our critical spare parts identification and making sure they are stocked.	We agree that improving the mangement of critical spare parts is an essential component to a robust asset management program. However this should be prioritized with other elements of storeroom management. Unmanaged and informal storerooms are often a source of facial losses. This includes: -Critical Spare Parts cannot be managed outside of formal warehouses. -Materials costs not captured at the asset level. -Purchasing and expensing more than is needed for use across multiple fiscal years is not a fiscally responsible accounting of ratepayer dollars
13	2.0	2.0	8	Hetch Hetchy System and Regional Water System" should be "Hetch Hetchy Regional Water System." A similar revision is necessary in the second paragraph.	Noted, we will make this clarification in the final report
14 15	2.0	2.0 2.0	8	BAWSCA has 26 customers. SFPUC has 27 wholesale customers (there is one very small customer that is not a BAWSCA member.) This section would benefit from a more complete description of SEDLIC and its various enterprises flucinescent	Noted, we will make this clarification in the final report Noted, we will make this clarification in the final report
15	3.0	3.1.3	8	This section would benefit from a more complete description of SFPUC and its various enterprises/businesses. When does redundancy to a system come into consideration in the Evaluation Criteria? If a system is redundant (such as having backup pumps for a chemical process or if say, Baden is a backup facility to HTWTP) to another, is that reflected under "Risk Procedures?" Authors might consider a clarification.	Noted, we will make this clarification in the final report We will edit the final report to include the following: "Factors influencing consequence of failure include Environmental, Finacial, Safety, Operational and Capacity impacts. There are many subfactors such as asset redundancy that are considered in the analysis."
17	5	5.1.2	23	There are other ways to define a linear asset in Maximo besides the Maximo Linear Asset Module. As discussed in our interview, we are looking at different ways we may segment a linear asset while maintaining the integrity of the facility.	Acknowledged. No change to text needed.
18	5.0	5.1.3	23	intervew, we are looking at different ways we may segment a linear asset while mantaining the integrity of the facility. "Risk data for all assets is not currently populated in Maximo". As discussed in the interview, our intent will be to house risk- based data (LOF, COF, Installation Date) in Maximo and download it to the capital planning tool for analysis and decision- making.	Risk is also an important consideration in maintenance planning for which Maximo is the management tool. We feel risk ratings should be included in Maximo and any other planning tool.
19	5.0	5.1.4	23	maxing. 1) HHWP does have a PdM program for transformers, breakers, generator bearings, and the oil pressure sets. 2) The paragraph following the bulleted list of SOPs should read, "Work order planning and scheduling is performed by a group dedicated to this function for 13 different shops."	No modification to the report is planned. Noted, we will make this clarification in the final report
20	5.0	5.1.5	24	3) Tracked work statuses should include SAPPR (Supervisor Approved) between Waiting Approval and Planner Approved. Fixed Asset inspected every 1 - 10 years not 3 - 10.	Noted, we will make this clarification in the final report.
21	5.0	5.1.6	25	"Internal accounting policies prevent mixing funds and expenditures across water and power but do not prevent R&R funds from being expended on non-R&R needs." Unclear what this means. Please clarify.	We attempted to identify any controls that exist on dedicaed funds such as for rehabilitation and replacement. This sentence is intended to state that accounting policies prevent cominging fund expenditures between utilities (Water vs Power) but do not prevent the cominging of funds within a utility. We will add clarification to this paragraph: "As such these is no control policy to prevent dedicated P&P funds from being expended on CIP or maintenance needs."
ļ		ļ	ļ		"As such there is no control policy to prevent dedicated R&R funds from being expended on CIP or maintenance needs."

	BAWSCA Asset Management Audit SFPUC Compiled Comments with West Yost Comments							
Comment No.	Chapter	Section	Page Number	SFPUC Comments and Planned Edits	West Yost Response			
22	5.0	5.2.1	27	Because WST did not prepare written responses to the interview questions, information extracted from the verbal interview was inaccurate or incomplete in some areas. The following dozen or so comments are intended to clarify WST's interview input. Text in quiztation in the next dozen or so comments represents new additions or modifications. For context and clarify, sentences right before the new additions or modifications are included in the comments. Maximo is used as the registry for managed assets. The initial Maximo registry was established in 1999 when Maximo was first brought online and was locedy imported from a previous database. At that time, staff performed data scrubbing, although data standards did net dvist. The Maintenance Phaning Group adds and modifies assets and is the registry owner with sole permission to add or modify assets and attributes. "Maintenance Planning works with Maintenance Engineering and capital project teams to import new assets and equipment data sheets that come from capital projects into Maximo. Maintenance Planning is currently working closely with the System Operations group to field verify asset Inventory at select facilities and making updates and corrections to the asset registry at these facilities as necessary with the goal of going through all VST treatment facilities in the next couple of years. This process includes creating and standardizing PM records and developing and standardizing job plans for similar assets. VST expects to add 3.00 to 4.000 assets that were part of VSIP to the asset registry as a result of this effort. Eved assets make up the majority of the assets in Maximo for WST assets."	Noted, we will make this clarification in the final report			
23	5.0	5.2.1	27	The asset registry is about "75 to 80" percent complete and includes approximately 13,000 assets. An estimated 3,000 to 4,000 assets from WSIP are not registered. The asset registry is being updated to create additional classifications and attributes and assets from WSIP are not registered. The asset registry is represented classifications and attributes and save registry birarchy currently follows and a Location/Process/Equipment structure. A policy from 2010 governing classifications and hierarchy is presented in Appendix H. "Staff reports this policy is followed most of the time but is outdated in meeting current asset management practices. WST management retained a consultant to work with Maintenance Planning, Maintenance Engineering and System Operations to update existing policy including development of a acpanded hierarchy structure. Applications. and attributes and improving the equipment data sheets with a focus on new assets and attributes being readily importable into Maximo following the completion of capital projects. The updated policy is expected to be completed in summer of 2020."	Noted, we will make this clarification in the final report			
24	5.0	5.2.1	28	A 2008 Policy defines assets as greater than \$5,000 value for Finance purposes. In practice, however, there are assets valued lower in the registry due to asset criticality, maintenance needs, run-to-fail assets, and regulatory requirements. Lock- Out Tag-Out assets are not considered. "Staff is updating asset definition standard which will include the elimination of run-to fail assets in theatmo."	Noted, we will make this clarification in the final report			
25	5.0	5.2.3	29	The sentence should say, "Labor and materials data are logged or captured against a work order or asset, but not tool data."	Noted, we will make this clarification in the final report			
26	5.0	5.2.4.1	29	Under linear assets, WST assesses steel pipes once every 20 years and PCCP every 10 years.	Noted, we will make this clarification in the final report			
27	5.0	5.2.4.2	29	Vertical Assets were last inspected in 2009 although periodic, informal assessments are ongoing. "Stationary engineers, house plumbers, electricians and electronic maintenance technicalmans perform routine PMs and as part of that work perform informal condition assessments." As noted earlier, WSIP reneved a considerable amount of infrastructure.	Noted, we will make this clarification in the final report			
28	5.0	5.2.4.2	29	Asset condition is not noted in the asset registry in Maximo but is documented in separate reports or memoranda. Staff recognizes they are not where they want to be on condition assessment and want a more robust methodogicy. "The asset management policy update will include a more analytical procedure to analyzing and reporting asset condition to plan for asset replacement and refurbishment."	Noted, we will make this clarification in the final report			
29	5.0	5.2.5	30	The statement that "Risk policy is not considered" is more appropriately characterized as "Risk and level of service goals are considered."	Noted, we will make this clarification in the final report			
30	5.0	5.2.7	30	In Table 3, objective 4, the WST response should be changed to "Risk and Resiliency Assessment (RRA) has been completed. WST has emergency response procedures and plans in place, and two emergency interties with neighboring water agencies. Emergency Mutual aid is in place through participation in the California Water/Wastewater Agency Response Network (Ca/WARN)."	Noted, we will make this clarification in the final report			
31	5.0	5.2.8	30	Purchase Requests and Purchase Orders are managed in Maximo. The Purchase Request is initiated in Maximo and approved in the finance system (Oracle PeopleSoft). Warehouse management is in Maximo. Warehouse stock primarily consumable, and not asset-related, materials. Spear parts are stored at individual facilities outside of warehouse and inventory control management. "Inventory of spare parts is managed by individual work crews in System Operations and the trades on both sites of the bay. Tools are managed in Maximo and the sub of work."	Noted, we will make this clarification in the final report.			
32	5.0	5.2.8	30	Naterials are received at the central warehouse in Millbrea and are directly entered into Maximo. Materials sent oud the warehouse are issued to staff only through work orders. Returns are processed at the warehouse and restocked back into Maximo. Material reservations are not used for work orders and kitting is not performed. "Staff practices for stocking spare parts vary between the different work crews and trades."	Noted, we will make this clarification in the final report			
33	5.0	5.2.9	31	The Staff Plan has been revised to match comparable staff at HHWP supporting asset management. WST Asset Management Services include the following positions: 0923 Maintenance Planning Manager (1) 7262 Asset Planners (3) Materials ManagementWarehouse Operations include the following positions: 1931 Senior Parts Storekeeper (1) 1934 Storekeeper (3)	Noted, we will make this clarification in the final report			
34	6.2	Table 5	35	It should be noted that IT is currently in the process of procuring a vendor to assist with integrating Maximo data with GIS data	Noted, we will make this clarification in the final report			
35	6.2	Table 5	41	"Replacement Planning, Rehab and Replacement Expenditure Policy" The sentence is incomplete: Dedicated funds for asset	The sentence should read "Dedicated funds for asset renewal do not exist. This will be clarified in the final report.			
36	6.2	Table 5	41	renewal do not Service Level definitions for asset management "LOS criteria and goals do not exists." LOS exists for facilities now but not	Reference Comment 11 for LOS of Assets. We will edit the final report to read:			
				for assets. SFPUC staff does not think it makes sense for each asset to have an individual LOS goal.	"LOS ratings exist for Facilities but not for assets." The ratings of Repeatable and Initial should have been reversed. We will edit the final report to read Initial for HHWP and			
37	6.2	Table 5	42	"Connection to Other Plans" It is unclear why the respective ratings were given for this section. Please clarify.	Repeatable for WSP			
38	6.2	Table 6	44	These recommendations should be revised as appropriate based on review comments provided.	We will address each comment as noted in our responses.			

APPENDIX B

State of the Regional Water System, SFPUC September 2018, Section 3 Asset Management San Francisco Public Utilities Commission 2018 State of the Regional Water System Report

State of the Regional Water System



Services of the San Francisco Public Utilities Commission

September 2018

3. Asset Management Program Overview

An asset management program allows a utility to minimize the total cost of owning and operating facilities, while delivering specified LOS at an acceptable level of risk. Asset management is an entire life-cycle process. Implementing such program requires a regular practice of acquiring data on assets, evaluation of these data to determine any shortcomings in maintenance or need for capital projects, implementation of modified maintenance practices or completion of capital upgrades, and a practice of documenting the resulting performance for later use.

The SFPUC is striving towards integration of the following functions that collectively create an asset management program as discussed in this chapter:

- **Define LOS:** Establish, publish, and regularly review LOS and related performance objectives.
- **Document Asset Inventory and Condition:** Perform periodic condition assessment of assets and determine actual performance as related to the LOS.
- **Plan/Analyze:** Perform planning tasks that help identify performance shortcomings and, where needed, modify maintenance practices and/or generate capital project scopes that eliminate the performance gaps and prioritize work.
- **Develop Budget:** Review cost estimates of new or modified work, compare to the existing budget, and prepare revised budgets for decision makers' review. In parallel, SFPUC Finance staff help prioritize and structure the budget (including the CIP) by providing financing options and limitations.
- **Implement/Operate:** Carry out maintenance programs, as adjusted, and complete any capital projects.
- **Obtain/Apply Feedback:** Record available data for use in informing planning and budgeting.

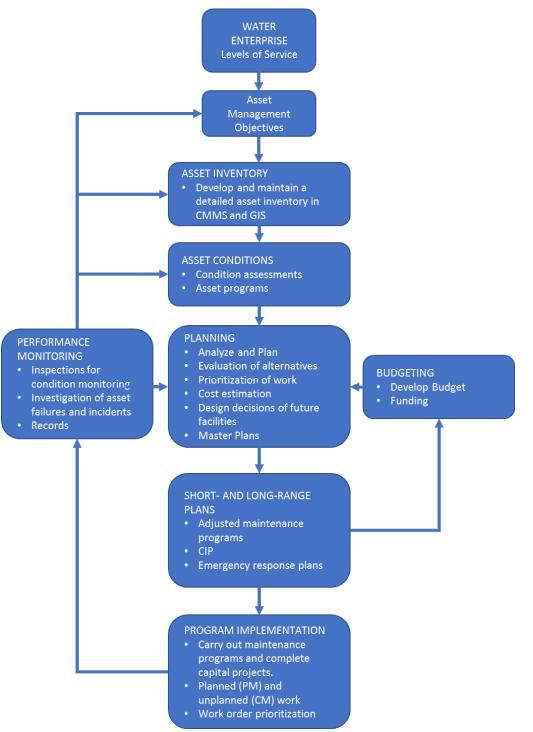
The diagram presented in Figure 3-1 applies to both HHWP and WSTD and illustrates how these functions should work together.

3.1 Performance Objectives

As a general matter, a utility's LOS represents broad, system-wide performance objectives that guide the management of the utility and that can be communicated and understood by ratepayers. LOS can evolve over time, reflecting changes to regulatory requirements, system demands, adoption of new reliability standards, and the willingness of ratepayers to pay.

Overall, the performance of the system is the collective performance of the system's individual assets. The challenge then becomes creating an asset management program for individual assets that ensures that broad system-wide performance is achieved – and doing this in a cost-effective manner. Below, the broader policy-level objectives (i.e. LOS) are discussed first (Section 3.1.1), followed by the asset management program objectives (Section 3.1.2) that have been designed to achieve the policy-level objectives.

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3.1.1 Levels of Service for the Regional Water System

In 2008, the SFPUC adopted LOS Goals and Objectives for the Water Enterprise in conjunction with the approval of the WSIP Programmatic Environmental Impact Report. Those LOS provided the basis for many of the WSIP project designs and are presented below.

Proposed updated LOS Goals and Objectives have been developed and were presented to the SFPUC Commission on October 24, 2017, but have not been considered for adoption (see Appendix I). However, the proposed LOS represent guidance that the Water Enterprise is using in day-to-day operations. They do not represent any reduction from the adopted LOS Goals and Objectives, and cover areas that were not included in 2008, such as In-City Delivery Reliability. Also, a number of LOS have been added that relate to our workforce and our role in the communities we serve, consistent with the SFPUC's 2020 Strategic Plan.

The LOS goals (shown in bold italic headings below) and accompanying objectives (shown in the bullets following the headings) address six areas for improvement: water quality, seismic reliability, delivery reliability, water supply, sustainability and cost-effectiveness.

WATER QUALITY - maintain high water quality

- Design improvements to meet current and foreseeable future federal and state waterquality requirements.
- Provide clean, unfiltered water originating from Hetch Hetchy Reservoir and filter all other surface water sources.
- Continue to implement watershed protection measures.

SEISMIC RELIABILITY – *reduce vulnerability to earthquakes*

- Design improvements to meet current seismic standards.
- Deliver basic service to the three regions in the service area (East/South Bay, Peninsula, and San Francisco) within 24 hours after a major earthquake. Basic service is defined as average winter-month usage, and the performance objective for the regional system is 229 million gallons per day (mgd). The performance objective is to provide delivery to at least 70 percent of the turnouts (i.e., water diversion connecting points from the regional system to customers) in each region, with 104, 44, and 81 mgd delivered to the East/South Bay, Peninsula, and San Francisco regions, respectively.
- Restore facilities to meet average-day demand of 300 mgd within 30 days after a major earthquake.

DELIVERY RELIABILITY – *increase delivery reliability and improve the ability to maintain the system*

• Provide operational flexibility to allow planned maintenance shutdown of individual facilities without interrupting customer service.

- Provide operational flexibility to minimize the risk of service interruption due to unplanned facility upsets or outages.
- Provide operational flexibility and system capacity to replenish local reservoirs as needed.
- Meet the estimated average annual demand of up to 300 mgd under the conditions of one planned shutdown of a major facility for maintenance concurrent with one unplanned facility outage due to a natural disaster, emergency, or facility failure/upset.

WATER SUPPLY - meet customer water needs in nondrought and drought periods

- Meet average annual water demand of 265 mgd from the SFPUC watersheds for retail and wholesale customers during nondrought years for system demands through 2018.
- Meet dry-year delivery needs through 2018 while limiting rationing to a maximum 20 percent system-wide reduction in water service during extended droughts.
- Diversify water supply options during nondrought and drought periods.
- Improve use of new water sources and drought management, including groundwater, recycled water, conservation, and transfers.

SUSTAINABILITY – enhance sustainability in all system activities

- Manage natural resources and physical systems to protect watershed ecosystems.
- Meet, at a minimum, all current and anticipated legal requirements for protection of fish and wildlife habitat.
- Manage natural resources and physical systems to protect public health and safety

COST-EFFECTIVENESS – achieve a cost-effective, fully operational system

- Ensure cost-effective use of funds.
- Maintain gravity-driven system.
- Implement regular inspection and maintenance program for all facilities.

3.1.2 Asset Management Objectives

As mentioned above, a more specific set of objectives is used to guide capital and maintenance planning and is referred to collectively as asset management objectives. The asset management objectives provide the necessary detail to connect daily workforce priorities with the broader ratepayer service expectations (i.e., LOS). Table 3-1 lists these objectives and provides a status on each.

Objective	WSTD	HHWP
Develop and maintain a detailed asset inventory	estimated 30,000 asset inventory has been set up in	All assets where maintenance is performed is included in our CMMS (Maximo). This includes about 15,000 assets
Regularly complete asset condition assessments	Plants were systematically walked through once, over a 3 year period; since then (2011) we have relied upon observations of plant operations staff. Dam, pipelines and right of way assessments are performed regularly. Our buildings and grounds are not systematically assessed.	HHWP performs condition assessment by facility (an aggregation of assets at the facility level). There is a backlog due to funding, facility availability for assessment and staff resources.
Use a computerized maintenance management system (CMMS) to centralize all asset data	Maximo	Maximo
Perform preventive ² and predictive ³ maintenance to reduce corrective maintenance (CM) and unplanned outages where cost-effective (minimize life-cycle cost), or when system risks to unplanned outages warrant increased maintenance costs	A significant level of preventive maintenance is performed in line with this objective, though no analysis confirming reduction of corrective maintenance or impact on life-cycle cost has been performed.	The program includes preventative maintenance (consistent with industry standards) and predictive maintenance to prevent unplanned outages or risk to operations is high. We do not perform reliability centered maintenance.
Prioritize CM ⁴ to increase system reliability	Noting first that a higher objective is to reduce CM, yes, operational risk is a primary driver in how we prioritize	In 2018, a reliability process was developed to address failures and determine root cause. The process has not

² Preventive maintenance involves regularly performed, planned tasks that are scheduled based on either time passed or meter triggers. This is done to reduce the possibility of asset failure.

³ Predictive maintenance relies on conducting maintenance based on trends within equipment data. This technology is tied to condition-based monitoring systems for reading the output (condition) of an asset's variables. Predictive maintenance is based on predicting when an asset needs attention rather than simply replacing a part when it could have lasted longer.

⁴ Corrective maintenance is maintenance which is carried out after failure detection, and is aimed at restoring an asset to a condition in which it can perform its intended function.

Section 3 – Asset Management Program Overview

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Objective	WSTD	HHWP
	CM at our plants, along with staff safety.	been implemented as of this date.
Complete peer review of maintenance programs to ensure that the scope of maintenance is consistent with industry standards	In 2016 a peer review was performed to identify the maintenance program needs with respect to coming up to industry standards.	Not all assets in Maximo have gone through peer review. PMs were originally developed by HHWP Maintenance Engineering and Operations and are consistent with industry standards. Modifications to PMs can be recommended by either Operations or Maintenance Engineering. Modifications are reviewed by Maintenance Engineering.
Develop expenditure reports that compile costs for facilities, assets, and maintenance programs — a quick way to tell where money is going and what it is accomplishing.	Expenditure reporting at the facility level has been established as an objective for staff to implement in FY19.	We have collected the information but have not set up reports.
Update the 10-year CIP and annual operating budget by integrating data from condition assessments, estimates of remaining useful life, failure analyses, replacement costs, maintenance programs, and LOS into a well-informed forecast of capital and R&R costs.	Information from conditions assessments has been used in the updating of the current 10-year CIP.	Conditions are not performed by asset but by facility. In 2017, HHWP began the process of developing an Asset Risk tool to evaluate criticality, likelihood of failure and consequence of failure for facilities and linear systems. The tool includes replacement costs and LOS are included in the criticality rating.
Investigate asset failures and document the root cause of failure	Documentation and investigation of major systems failures and some asset failures is routinely performed.	HHWP has developed a reliability process to address failures and determine root cause. The process has not been implemented as of this date.
Plan facility maintenance to minimize risk to customers	Focused planning of preparation for high production periods is performed regularly to reduce customer risks during Hetch	Asset Risk Tool in development

Section 3 – Asset Management Program Overview

2018 State of the Regional Water System Report

Objective	WSTD	HHWP	
	Hetchy source outages.		
Maintain emergency response plans (listed in Appendix B)	Regular updates and training on plant risk management plans are performed; Dam emergency action plans are exercised and updated.	Yes. Out of the seven plans that are listed in Appendix B, we have either reviewed or updated the plans, if needed, since 2016.	
Design future facilities based on information gathered through the asset management program.	This is an ideal we are working toward by pushing for capital project design services to include O&M engineering provisions.	Yes	

These asset management objectives become even more critical for the RWS now that most of the WSIP assets are complete and in need of an appropriate maintenance program.

3.2 Asset Inventory

The objective of the Asset Inventory is to develop and maintain an accurate inventory and recording system for the multitude of assets in the RWS. This process involves several databases which house the asset inventory, condition, performance history, and location. Three primary databases support asset management processes: the CMMS (MAXIMO), the Fixed-Asset Accounting System (FAACS), and the geographic information system (GIS).

3.2.1 CMMS (MAXIMO)

A primary function of the CMMS is as a work order system that records and schedules maintenance and operations support by trades staff and engineers. Increasingly, though, the CMMS is being used to support asset management and capital planning, because it contains asset condition, performance history, and cost of maintenance. Improving the linkage between capital projects and the CMMS is ongoing. Ideally, engineering drawings showing equipment and assets would be automatically added to the CMMS once project closeout is complete and installed equipment is verified.

The CMMS allows thousands of pieces of equipment over seven counties to be compiled in a simple, searchable inventory. The CMMS includes complete descriptions of each asset, along with installation dates and performance histories; most assets are also geolocated in CMMS and GIS.

Along with regular standardized assessments, asset condition is also supplemented by maintenance reports and operator observations. Asset information is aggregated up to the facility level. Aggregated information provides management with actual performance of individual assets and larger facilities, and remaining useful life. The CMMS contains labor and materials expenditure data that permit accurate estimation of asset value and replacement costs. A process to ensure quality assurance of CMMS data is still under development but there is no timeline for completion.

3.2.2 Geographic Information System

The GIS program used by WSTD provides GIS support to mission-critical core programs such as Pipeline Inspection, Underground Service Alert, and Emergency Response. GIS has also been identified as a key component of succession planning, due to its ability to record information about assets and store this information where it can be intuitively retrieved by new employees.

Information about assets is recorded in various GIS libraries, including pipeline alignments, property rights and boundaries, and appurtenance locations (valves, vaults, manholes, service connections, etc.). GIS also records peripheral data such as leak history; and geotechnical data, including liquefaction potential, corrosion potential, and locations of known earthquake faults. Links in the GIS data also reference engineering drawings (plans and profile as-builts).

Multiple web-based mapping applications have been created to view the GIS data. These web applications can be securely viewed on desktop computers, laptops, phones, and tablets, both onsite and off. WSTD has created cloud-based web applications specifically dedicated to emergency response. These cloud-based applications offer far greater reliability and accessibility in the event of a natural disaster.

WSTD is working toward integrating CMMS with the GIS system. This will allow geographic data for assets to be directly available in the CMMS. There are also numerous GIS-based displays that can be used to view work orders geographically in the office or on mobile devices in the field.

To integrate these systems, both must have data that accurately reflect the assets on the ground and are named according to the asset classification index used in the CMMS. WSTD is currently creating GIS data by using site surveys that inventory assets. Once the GIS data accurately reflect the assets, the CMMS will be updated using the GIS data, and the two systems will be integrated. The overall schedule is to finish in about 4 years or 2023. It is the data acquisition part of the project that controls the timeline. Field crews are currently scheduled to complete field assessments in February of 2022. After that, data will be input into GIS and then Maximo within 6 months. The majority of the data collection is being performed by the Regional Cross Connection Controls Project (this project is discussed in Section 4.2.5). The first batch of data, BDPL Nos. 3 and 4, is being used to configure and test the system integration in FY19.

3.2.3 Fixed-Asset Accounting System

The FAACS was used to compute the value of a facility or fixed asset net of depreciation. This was the primary database used for the SFPUC's financial statements. The new PeopleSoft Financials and Procurement system went live on July 3, 2017 as the new financial system of record of the CCSF, and is used to develop and publish SFPUC's financial statements. When capital projects are completed, project managers communicate facility and asset details to SFPUC Financial Services staff. PeopleSoft is used to compute the value of a facility or fixed asset, net of depreciation.

Depreciation begins at substantial completion using the straight-line method over the estimated use lives of related assets, which range from 1 to 100 years for equipment, and 1 to 200 years for buildings, structures, and improvements. The computerized maintenance management system, Maximo, has been interfaced with PeopleSoft utilizing the same project cost structure to better

align project and maintenance expenditures with fixed assets. The SFPUC will continue to collaborate with the CCSF Controller's Office to plan future enhancements for asset management functionality within the PeopleSoft system.

3.3 Condition Assessments

The assets in the RWS are periodically inspected through three separate assessment programs, each essentially using a risk-based approach: 1) fixed assets, 2) linear assets, and 3) dams.

The first program addresses fixed assets. Facility inspections are prioritized and repeated every 3 to 10 years, depending on each facility's importance in meeting LOS. WSTD uses three tiers of classification for facilities in the Bay Area, with Tier 1 representing the most important classification. There are about 100 facilities in the three tiers. Although inspections are performed at the facility level, condition data in the CMMS are recorded at the asset level. At HHWP, condition assessments on critical assets with a life expectancy of greater than 25 to 30 years are performed on a case-by-case basis. Early in the asset's life cycle, inspections and limited assessments coincide with scheduled maintenance activities. As assets move through their life cycle, the information gathered from previous preventative maintenance reports as well as from performance deviations identified by operators is used to schedule more comprehensive condition assessments. For critical assets with a lesser life expectancy, assessments are built into the asset's routine preventative maintenance program.

Linear assets (e.g., pipelines and roads) are assessed with a second program. Inspection frequency is dictated by pipeline conditions, ability to shut down the pipeline (usually the pipelines must be drained), operational problems associated with pipeline failures, potential liabilities, and the rate of degradation observed in prior inspections.

Dams use a third inspection and monitoring program, usually performed with regulatory oversight. The program is conservative, considering the high liability associated with dams, and the importance to the region's water supply. The major components of the program consist of: regular inspection and monitoring, regulatory reporting, maintenance, repairs, planning studies (stability studies, inundation map updates, and other), and emergency planning.

For all three condition assessment programs, a risk-based approach recognizes two key components: consequence of failure and probability of failure. The risk of failure is the consequence of failure combined with the probability of failure (risk = consequence × probability).

- **Consequence of failure:** severity of impact of the failure on the RWS should the asset fail. Consequences of an asset's failure will impact the RWS LOS described above.
- **Probability of failure:** likelihood that failure arising from any deficiencies will occur.

An asset's failure will impact LOS, but criticality criteria need to be defined to assess the impact of failure that an asset has on RWS and the defined LOS. The following criticality criteria are used to quantify the overall consequence of failure of an asset.

• **Water delivery:** insufficient water quantity (including interruption in water supply) and loss of fire suppression capabilities.

- **Drinking water quality:** degradation of water quality, which could result in loss of life and detrimental effects on human health.
- **Environmental:** harmful discharge to air, land, or water caused by human or mechanical failure.
- **Safety:** impacting the safety of the public or SFPUC staff.
- **Public perception:** damage to the SFPUC's reputation and the loss of consumer confidence in the SFPUC's ability to provide reliable and safe drinking water.
- **Financial:** loss of revenue if supplies cannot be made, increased expenses if regulatory fines are levied.

In general, facilities are deemed high risk when there is a relatively high probability of failure, and failure would lead to major operational consequences based on the criticality criteria defined above (i.e., loss of water supply and/or failure to meet water quality objectives). For condition assessment priority, it is important to note that this assignment of risk occurs at the facility level (such as HTWTP). Actual maintenance, which is performed on the individual assets in a facility, is prioritized using a method like the one discussed in the following section. Prior and next assessments at RWS facilities, linear assets, and dams are listed in Appendix C.

3.3.1 Facility Assessment Program

Formal assessment of most facilities began about 20 years ago, when the scoping process for the WSIP began. Most WSTD Tier 1 facilities were revisited in 2009, with assessments of Tier 2 facilities following in 2010. After these first rounds were completed, subsequent inspections were scheduled on a repeatable cycle. Many Tier 1/critical facilities were significantly modified by capital projects, which created challenges for capturing an accurate asset inventory. Although improving every year, many facilities still have incomplete inventory of assets in Maximo. A few critical facilities are well documented with about 95 percent of the assets in Maximo. Appendix C details the condition assessment priorities for facilities, dams, and linear assets.

For consistency and efficiency, all assets in a facility, such as a pump station or treatment plant, are assessed at the same time. Facilities completed under the WSIP have been be added to the appropriate condition assessment schedules. In some circumstances (e.g., specialized coatings and liners), assets must be inspected within the applicable warranty period, often 1 to 2 years after substantial completion. Tunnel inspection is particularly difficult and hazardous due to the presence of potentially explosive gas in many SFPUC tunnels. Despite these challenges, the SFPUC has been able to inspect four major tunnels in recent years (Crystal Springs By-Pass Tunnel, 2011; Mountain Tunnel, 2008 and 2017; CRT, 2015; and Irvington Tunnel No. 1, 2015).

Pre-Assessment Planning

Prior to conducting condition assessments, all records of maintenance performed since the previous assessment are reviewed by Maintenance Engineering staff. This includes, but is not limited to: CM logs, preventative maintenance logs, O&M manuals, standard equipment templates, relevant installation or as-built drawings, and relevant equipment specifications or

technical data sheets. Capital project deliverables (equipment lists, data sheets, and O&M manuals) are verified with existing CMMS data and onsite conditions.

If equipment requires an unusually high level of maintenance or displays unusually poor performance (compared to manufacturer's specifications and recommendations), Maintenance Engineering staff determines whether equipment is properly specified, engineering processes are appropriately designed, and equipment is installed properly. Maintenance Engineering then makes improvement recommendations to the facility manager, as appropriate.

Field Assessment

Assets are assessed in the field using standard asset condition assessment forms unique to the asset category (e.g., mechanical, electrical, structural, or linear). The facility assessment team consists of an operator, a facility manager,⁵ a maintenance planner, a maintenance engineer, and any specialty tradesperson. For each assessed facility asset, the assessment team verifies that all asset details have been recorded on the equipment form. For each asset, the asset, the asset, the asset name, location, brief description, CMMS identification code, and date placed in service are recorded on the standard asset condition assessment form. If any information is missing, that is also noted.

Each assessed asset is visually inspected to observe its general condition. This observation is categorized using a numerical scale, and described on the forms. Equipment is also observed in operation, to the extent possible, and field observations or observed failures are recorded on the asset condition assessment forms. Corrective actions or remedies are identified and recorded.

Other recorded details include inspection date, assessment team, date of next inspection, time to complete the assessment, and estimated remaining useful life. Digital photos are taken of the asset, as required.

Post-Assessment Analysis

Following completion of all assets in a tier, Maintenance Engineering reviews data collected during the assessments, design records, and maintenance history records, and then completes a condition assessment report. Maintenance Engineering determines whether the process engineering is adequately designed and whether the equipment was properly specified and installed. The report also recommends improvements to maintenance or equipment upgrades/ respecification; new process engineering, if warranted; and parts/materials lists for essential spare parts. The goal of the report is to provide actionable recommendations to management that will lower life-cycle costs and reduce unplanned outages.

3.3.2 Linear Asset Program

The linear assets of the RWS include pipelines, tunnels, and penstocks, as well as watershed roads. This section primarily addresses pipeline inspections, which are usually performed inside a dewatered pipeline. The SFPUC continues to perform pipeline inspections to

⁵ Staff leads for facilities vary; typically, chief stationary engineers manage treatment facilities and pump stations, plumber supervisors manage pipelines and vaults, and building superintendents manage buildings and corporation yards.

proactively find potential problems with transmission pipelines before major problems occur; as with facility condition assessments, pipeline inspections are risk-based.

Pipeline inspections are scheduled through a four-step process. First, a long-range recurrence inspection schedule is created based on date of the last inspection and the pipeline material. Second, criticality of the pipeline is considered, particularly if a segment of pipe will be relied upon with no redundancy during other outages. Third, the condition of the pipe found on the previous inspection is considered. Last, schedules are adjusted by up to 2 years (sooner or later) to accommodate construction and other system outages that can affect the cost of performing the shutdown and inspection. If a pipeline is particularly critical, cost is a minor factor.

The pipeline inspection program in the Bay Area began in 1990, with the dedication of two engineers to the task. During the early 1990s, utility plumbing crews were expanded to prepare pipelines for interior inspections, support inspections, and replace any inoperable appurtenances. Since the inception of the inspection program at WSTD, 139 miles of the 229 miles pipeline were inspected at least once in the inspection program, and 90 miles of pipeline have never been inspected (30 miles of which is newer pipelines built between 2012 and 2015). HHWP has been performing condition assessments on the SJPLs since 2006 and has inspected more than 42 miles of pipe.

There are a variety of pipeline types and sizes that require specific inspection techniques to detect flaws and assess conditions particular to each pipeline. Each type of flaw requires unique repair methods to restore the pipeline. Some flaws are significant enough, or extensive enough, to warrant replacement or slip-lining.

Most inspections of pipelines use visual methods to detect flaws. The most common category of pipeline is WSP, representing more than half of the total distance of transmission pipelines. Riveted pipelines, the oldest in the transmission system, also make up a significant portion of the total. RCP is also inspected visually, but has flexible joints, a unique feature. Steel "lockbar" pipeline develops flaws similar to those of WSP. A combination of acoustic sounding (with a ball peen hammer) and visual inspections is performed for all pipelines.

Inspections of steel pipe sections of the SJPL are performed with a HHWP inspection device.⁶ The device identifies areas of thin wall that require repair and/or replacement of long sections of pipe with significant corrosion. Spot repairs guided by such inspection data are one of the best options to extend the life of the asset at the least cost.

Due to the liabilities associated with PCCP and the prevalence of this pipe in other water systems across the world, special technologies have been developed to inspect and detect the unique flaws that can develop in PCCP. An electromagnetic device is towed through a dewatered pipeline section by a specialized contractor to determine the number of broken prestressed wires that surround the pipeline (when intact, these wires provide most of the hoop strength). A baseline of current wire breaks is typically established for each pipe section using prior inspection data or a calibration section of pipeline of known condition (if available). Then

⁶ More information on the HHWP inspection tool is available at this link: Advanced Method of Condition Assessment for Large-Diameter Mortar-Lined Steel Pipelines. https://infrastructure.sfwater.org/fds/fds.aspx?lib=HHWP&doc=210945&data= 65603895

additional wire breaks can be detected/monitored through real-time monitoring using acoustic fiber optic cable inserted into the pipeline (while it is in service), or by additional inspections.

These proven methods have been used throughout the industry for more than 10 years and are reliable. Details of linear asset condition and inspection techniques are included in Appendix D and Appendix E.

The valve exercise program is designed to extend the useful life of valves, increase reliability, and reduce life-cycle costs. The valve exercise program is based on specifications outlined in the valve manufacturer's O&M Manual, as well as best management practices (BMPs). See Section 4.2.3 for a description of the transmission valve exercise program.

3.3.3 Dam Assessment Program

The SFPUC owns and operates 22 dams that are part of the RWS, of which 15 dams—including 11 regional dams outside San Francisco and four dams in San Francisco—are under the jurisdiction of the California DSOD (Table 3-2). The RWS includes the six dams under DSOD jurisdiction in Tuolumne County (Early Intake Dam, Lake Eleanor Dam, Moccasin Dam (aka Lower Moccasin Dam),⁷ O'Shaughnessy Dam, Priest Dam, and Cherry Valley Dam); two in Alameda County (Calaveras Dam and Turner Dam); three in San Mateo County (San Andreas, Pilarcitos, and Lower Crystal Springs); and four in San Francisco County (University Mound [North and South] and Sunset Reservoir [North and South]). This report does not cover the other dams in San Francisco County that are not part of the RWS and serve only local residents in San Francisco. In addition, the SFPUC owns, operates, and maintains several smaller dams in the RWS that are not under the jurisdiction of the DSOD (see Table A-1 in Appendix A for the full list of RWS dams).

As shown in Table 3-2, each dam receives a hazard classification from the DSOD with respect to dam safety. This classification is based solely on downstream hazard considerations in the unlikely event of dam failure resulting in an uncontrolled release of water, not the actual condition of the dam or its critical appurtenant structures. The downstream hazard is based solely on potential downstream impacts to life and property should the dam fail when operating with a full reservoir. This hazard is not related to the condition of the dam or its appurtenant structures.

- Low No probable loss of human life and low economic and environmental losses. Losses are expected to be principally limited to the owner's property.
- Significant No probable loss of human life but can cause economic loss, environmental damage, impacts to critical facilities, or other significant impacts.
- High Expected to cause loss of at least one human life.
- Extremely high Expected to cause considerable loss of human life or would result in an inundation area with a population of 1,000 or more.

⁷ Moccasin Upper Dam is an appurtenance of Moccasin Dam.

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Dam	County	Year Built	Reservoir Vol. (AF)	Downstream Hazard Class	EAP in Place	Inundation Maps Due	Evaluations Underway	DSOD Condition Assessment
Calaveras	Alameda	1925	96,800	Extremely High	Yes	1-Jan-18		(in construction)
James H. Turner	Alameda	1964	50,500	Extremely High	Yes	1-Jan-18	Spillway	Fair
Lower Crystal Springs	San Mateo	1888	69,300	Extremely High	Yes	1-Jan-18		Satisfactory
Pilarcitos	San Mateo	1866	3,100	High	Yes	1-Jan-19		Satisfactory
San Andreas	San Mateo	1870	19,027	High	Yes	1-Jan-19	Spillway	Satisfactory
O'Shaughnessy	Tuolumne	1923/38	360,360	Extremely High	Yes	1-Jan-18	Spillway	Satisfactory
Cherry Valley	Tuolumne	1956	273,500	Extremely High	Yes	1-Jan-18	Spillway	Satisfactory
Early Intake	Tuolumne	1925	115	Low	Yes	Not Required		Fair
Lake Eleanor	Tuolumne	1918	27,113	High	Yes	1-Jan-19		Satisfactory
Moccasin	Tuolumne	1930	554	High	Yes	1-Jan-19	Spillway, Dam	Poor
Priest	Tuolumne	1923	1,706	High	Yes	1-Jan-19		Satisfactory
Sunset North Basin	San Francisco	1938	274	Extremely High	Yes	1-Jan-18		Satisfactory
Sunset South Basin	San Francisco	1960	268	Extremely High	Yes	1-Jan-18		Satisfactory
University Mound North Basin	San Francisco	1885	182	Extremely High	Yes	1-Jan-18		Satisfactory
University Mound South Basin	San Francisco	1937	249	Extremely High	Yes	1-Jan-18		Satisfactory

Table 3-2: DSOD Jurisdictional Dams in the Regional Water System

Notes:

Downstream Hazard Classification: (classification is based solely on downstream hazard considerations, not the actual condition of the dam or appurtenant structures.):

Low - No probable loss of human life and low economic and environmental losses. Losses are expected to be principally limited to the owner's property.

Significant - No probable loss of human life but can cause economic loss, environmental damage, impacts to critical facilities, or other significant impacts.

High – Expected to cause loss of at least one human life.

Extremely High - Expected to cause considerable loss of human life or would result in an inundation area with a population of 1,000 or more.

Definitions of downstream hazard classification and DSOD condition assessment can be found at https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/All-Programs/Division-of-safety-of-dams/Files/Publications/DSOD-Dam-Rating-Information-and-FAQs.pdf

AF = acre-feet

CIP = Capital Improvement Program

DSOD = Division of Safety of Dams

EAP = Emergency Action Plan

WSIP = Water System Improvement Program

Of the nine jurisdictional dams in the Bay Area, Lower Crystal Springs is a concrete gravity arch dam; the other eight (Calaveras, Turner, San Andreas, Pilarcitos, University Mound North and South, and Sunset North and South) are earth embankment dams. See Appendix A for additional detail.

The system also includes several other smaller, nonjurisdictional dams. UCSR is relatively large in terms of storage volume by comparison to the others, but only impounds water 3 to 10 feet above the adjacent LCSR.

Dam Safety Program

HHWP, WSTD, and City Distribution Division (CDD) implement ongoing comprehensive dam safety programs to monitor, inspect, and maintain the dams to ensure public safety downstream. HHWP updated its Dam Safety Program in 2014. In FY18, WSTD updated its Dam Safety Program, which extends beyond the minimum requirements of the DSOD, outlined in the California Water Code, Division 3 – Dams and Reservoirs.

This extensive program establishes policies, objectives, and expectations as they relate to dam safety, including a surveillance and monitoring program. The SFPUC has adopted the following long-term commitments as they relate to the operation of their six dams.

- The dams and appurtenant structures will be operated in a manner that keeps them operationally and structurally safe.
- The dams will be maintained in a safe and nondefective condition to prevent degradation of the dam and appurtenant structures, and to maintain serviceability.
- The dams will be subjected to regular preventive and CM activities, jointly implemented by Maintenance Engineering and O&M staff for HHWP and WSTD. Dam maintenance records will be maintained by the Maintenance Engineering Staff. Example preventive and CM activities include crack repairs, vegetation and rodent control, ground repairs, instrumentation repairs, and valve and electrical system repairs.
- Nonroutine, specialized, and large -scale dam maintenance work and studies will be addressed by the Division's CIP. They will be designed by consulting engineers and will include projects such as instrumentation upgrades, and dam, spillway, or outlet retrofits. Planning projects may include studies such as seismic stability evaluations, inundation map updates, and emergency planning.
- Routine surveillance, monitoring, and reporting of the dam conditions will be performed in accordance with the surveillance and monitoring program. These activities include regular engineering inspection and analysis; reporting of instrumentation readings and measurements, such as piezometer, seepage, rain gage, and reservoir level readings; and engineering surveys of the dams for differential movement.
- The dams will be inspected once a year by staff from Engineering and Surveying, Dam Safety Program and other Division personnel and/or consultants, as deemed necessary or prescribed by the protocols specific to each Water Enterprise Division. DSOD personnel will be invited to participate in these inspections. The results of the annual inspections will be

documented in the Dam Inspection or Surveillance and Monitoring Report, and submitted by Engineering staff for management review in accordance with Division procedures. A copy of the Dam Inspection or Surveillance and Monitoring Report will be sent to the DSOD upon completion of this review.

- The valve exercising program requires the SFPUC to operate the adit valves and emergency release valves for each dam once per year. Every 3 to 5 years, DSOD inspectors, along with the Division engineer and inspector, will need to witness the valve exercising for each dam. A wet test with all the valves opened all the way is preferred. When environmental restrictions prevent the full release of water downstream (as was the case for Turner Dam for many years before 2018), a dry test will be done by opening and closing the emergency release valves with the adit valves closed (thus not allowing any water to go downstream). After testing, the emergency release valve is then closed and the adit valves are opened and closed.
- WSTD participates in the Bay Area Dam Owners Group (a local collaborative effort with SCVWD, Contra Costa Water District, and EBMUD), including peer review and information sharing on topics such as dam safety and monitoring, environmental permits for dam maintenance, emergency preparedness, seismic stability analyses, and operational restrictions.

3.4 Planning

Identifying any shortcomings between desired performance and actual performance, and then determining how to close the gaps with capital projects, modified maintenance, or enhanced staff training is the primary function of the planning process. A well-designed planning process involves thorough research, broad involvement by staff and stakeholders, and documentation of assumptions and decisions. As discussed above, knowledge of asset condition is paramount to this process.

3.4.1 Develop and Review Maintenance Programs

Maintenance procedures for assets originate from manufacturer documentation that is usually delivered at the time of asset acceptance (either delivery sign-off or during project closeout). A capital project can typically generate hundreds of new assets and procedures. Tracking to ensure delivery of this information is a separate effort, and is discussed below.

These procedures must be translated into "job plans" that outline the specific sequence of maintenance tasks, the frequency and timing of the procedures, and which work crews must work together to complete the tasks. These translation and set-up functions are performed by maintenance planners, and a maintenance engineer confirms the technical aspects of the maintenance tasks.

In 2015, WSTD began using external maintenance experts to review the job plan for Baden Pump Station to ensure that appropriate maintenance was being performed and documented. This peer review ensured that the scope of maintenance was understood and appropriately prioritized. Reports are also reformatted into easier-to-read summaries that can be quickly generated from the work order database. These reports allow managers to track how often and

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how thoroughly maintenance is being performed at a facility, compared to objective industry standards. Such standards may ask whether the appropriate critical work tasks are being completed; identify how work is currently being documented; identify how accomplished work is being reported; determine whether the maintenance team is appropriately staffed. The review effort was initiated at the Baden Pump Station and is now focused on the SVCF. The review also concluded that typical industry standard has a ratio of one planner to 30 staff. WSTD's planner to staff ratio is 1:60. HHWP is currently not using these tools.

The decision on whether and/or when to perform preventive maintenance (PM) is based on two objectives: to minimize unplanned outages (reliability) and to minimize life-cycle costs. For a given level of reliability, higher levels of PM can result in different life-cycle cost scenarios, depending on the asset. This is illustrated by the three hypothetical examples on Figure 3-2.

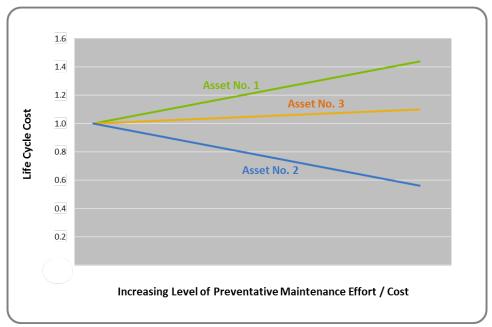


Figure 3-2: Preventive Maintenance Prioritization Methodology

For hypothetical Asset No. 1, increasing PM activities increasingly adds to the overall life-cycle cost due to its low replacement value. The maintenance strategy employed in this case should appropriately be "run to fail" (assuming reliability is unaffected). Examples include off-the-shelf electronics and sensors, as well as inexpensive pumps or motors that require little or no PM.

For Asset No. 2, increasing PM activities continues to lower the overall life-cycle cost, a typical result for large-value assets. Investment in corrosion protection is an excellent justification for paying higher PM costs to reduce overall life-cycle costs. Without proper corrosion protection — which could cost as little as 10,000 a year—a 100-million pipeline can have its useful life reduced by 50 percent.

For Asset No. 3, increasing PM activities slightly increases overall life-cycle costs. Although the goal of any PM program is to lower overall life-cycle costs, the role of certain assets in water system reliability (or any part of LOS) may warrant deviation from this goal. If high operational consequences result when a chlorine injection pump that has little redundancy experiences an

unplanned outage, the higher life-cycle costs attributed to maintenance (assuming that the maintenance is effective at increasing useable life and/or reliability) may be warranted to reduce system risk. Also note that in general, when maintenance is not cost-effective, system reliability can still be addressed by adopting a maintenance plan that essentially consists of predicting the component's remaining useful life and then replacing it when it reaches 85 to 95 percent of that value. Many systems in the RWS in contact with corrosive chemicals fall into this category.

3.4.2 Compile Performance and Failure Reports

Equipment and asset failure reporting is a critical function of asset management. Incidents that occurred in FY17 and FY18 did not disrupt water service to customers. These incidents included: chemical leaks/overfeeds in the Sunol Valley region, UV lamp breaks/lamp failures at the TTF, various equipment failures throughout the RWS, communication issues between facilities in the East Bay Field, and operator errors. Two of the more significant events were the TTF UV lamp failures and lamp breaks, and SCADA issues that led to off-spec water events. In regard to the TTF UV lamp failures and lamp breaks, WSTD has been closely working with the UV manufacturer to further troubleshoot the incidents to determine the root cause. In addition, a consultant is being hired to evaluate causes outside of just the UV system.

One of the SFPUC's goals during a RWS emergency is passing on the most accurate and current information to the wholesale customers. The SFPUC's primary notification tool is i-INFO, which allows the SFPUC to reach out to the largest group in the least amount of time, and pass along the most current and accurate information available. Where individual customers may be impacted to a greater extent, individual calls are made using the contact information provided by the wholesale customers. As more information becomes available, i-INFO is used to keep customers apprised of significant developments.

A powerful tool to help wholesale customers make decisions is eDna. eDna is the SCADA historian linked to the SCADA network. This information is transmitted in near real time. The critical detention time and water quality data used for notifications and operational decisions is available to the wholesale customers.

Appendix F contains a full list of incidents during the reporting period, along with the root cause of the failure. Corrective actions are documented in individual failure reports. Any of the following circumstances can trigger an incident report: partial or total unplanned outage of a facility (or "near miss"), unplanned discharge to the environment, drinking water quality violation (or anything reportable under the drinking water permit), employee injury (or anything reportable under California OSHA requirements), and chemical spills or leaks that are reportable to regulatory agencies such as Alameda County, San Mateo County, San Joaquin County, and the California Governor's Office of Emergency Services.

Failures from inadequate preventative maintenance can be addressed by reviewing procedures, designating critical equipment in CMMS, ensuring that condition assessments are performed, and periodically reviewing incident reports with all (not just affected) staff.

After an unplanned failure of an asset or facility is reported by operations or detected by SCADA, the SFPUC completes a simple, streamlined Incident Report that records a description,

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chronology, possible root cause, and suggested corrective action for the incident. Near misses also count as incidents, even though no realizable operations impacts occur. For example, when a redundant chemical feed pump fails and results in use of a backup, no significant operational impact would have been felt, but the failure is still significant. Other opportunities to gather and trend asset/facility failures (even when they do not reach the level of seriousness of an "incident") come from the SFPUC's internal notification system, i-INFO (the SFPUC's emergency notification software), weekly operations meetings, and CM work orders generated by MAXIMO.

The relevant incident details are recorded in the CMMS. Typical root cause of common failures include: inadequate PM, inadequate design, poor specifications, inadequate training for staff, poor procedures, poor communications, and operator error. Sometimes failures fall outside of these categories, or the reason for a failure is unknown. Typical remedies can include: replacement in kind, modified maintenance, modified operations, revised equipment specifications, and/or enhanced monitoring and training. Recording the performance histories in the CMMS allows long-term review for a piece of equipment or facility (all pieces of equipment are parts of larger facilities). Most importantly, a corrective action plan is developed for each incident. Details for FY17 and FY18 incidents for HHWP and WSTD are shown in Appendix F. Since the 2016 State of the Regional Water System Report, the definition of "incidents" has expanded to include regulatory violations. The increased number of reportable incidents has more than doubled due to this change.

3.4.3 Complete Master Plans

An essential planning function is provided through regular updates of master plans. Typically, master plans cover certain facility classes, such as water treatment plants; general reliability areas, like seismic or corrosion protection; or groups of related assets in a specific geographic location, such as the peninsula low-pressure zone. The plans are updated in a staggered schedule, with one or two completed each year to moderate workload and facilitate integration into the CIP. The scope of master plans extends beyond a simple condition assessment that may be conducted for a given facility on a regular 3-year or 5-year cycle. Master plans include broader asset and/or operational options and LOS factors. For example, a condition assessment documents an asset's state of repair and performance and normally generates a corrective work order or review of the PM; a master plan, on the other hand, will consider whether the asset should be repaired, replaced in kind, upgraded, or abandoned if rendered obsolete. Master plans also occur at the facility level, not the asset level, which allows analyses of how groups of assets are functioning together in a given facility (allowing an engineering process review). Master plans also consider broader failure modes, such as seismicity and large-scale facility structural vulnerabilities; and broader planning objectives, such as relation to the adopted LOS. The master plan schedule is an important reference document and is included in the CIP.

Table 3-3 list schedules for the relevant master plans. Appendix C provides schedules of major condition assessments.

Program	FY Start	FY Completion	
Corrosion Protection (completed) ⁸	2009	2010	
Dam Maintenance Program - Stability Study Update LCSD ⁹	2012	2014	
San Antonio/Turner Dam	2018	2019	
San Andreas Dam	2018	2019	
Peninsula High-Pressure Zone (PPSU) ^{10, 11, 12}	2014	2015	
Communication Systems	2014	2017	
Water Storage - Pilarcitos System Improvements	2015	2019	
Chemical Feed Systems – SVCF	2016	2019	
Peninsula Low-Pressure Zone Pipelines	2016	2017	
Irvington Tunnel Nos. 1 and 2 (Existing) ¹³	2015	2015	
BDPL Nos. 3 and 4 ¹⁴	2016	2019	
Alameda Siphons, Calaveras Pipeline, San Antonio Pipeline,			
SABPL	2017	2018	
BDPL Nos. 1, 2, and 5 ^{15, 16}	2017	2018	
SVWTP Reliability Upgrade	2020	2021	
HTWTP	2019	2020	
<i>Vaults, pump stations, chemical systems, storage tanks, field equipment, etc.</i>	Ongoing 5-year, 7-year, or 10-year condition assessment cycle.		

Table 3-3: Master Plan/Inspection Schedule – Bay Area

Notes:

BDPL = Bay Division Pipeline

FY = fiscal year

HTWTP = Harry Tracy Water Treatment Plant LCSD = Lower Crystal Springs Dam

PPSU = Peninsula Pipelines Seismic Upgrade

SABPL = San Antonio Backup Pipeline

SVWTP = Sunol Valley Water Treatment Plant

SVCF = Sunol Valley Chloramination Facility

⁹ URS report, "Lower Crystal Springs Dam Structural Evaluation" (SFPUC, 2013).

⁸ Schiff Associates, "Corrosion Survey for Transmission Pipelines Contract No. CS-904.C," SFPUC, July 2010.

¹⁰ Related documents include San Francisco Water Alliance, "Peninsula Improvement Program Final Report," SFPUC, March 2002.

¹¹ Related documents include San Francisco Water Alliance, "Peninsula Improvement Program Technical Memo 2, Hydraulic Modeling of Emergency Operations," SFPUC, November 2001.

¹² MWH/Lee report, "San Andreas Pipeline No. 2 Extension, Conceptual Engineering Report," SFPUC, June 2015.

¹³ Related documents include URS Corporation, "Final Technical Memorandum No. 8-01D (New) Tunnel Hydraulics," SFPUC CS-820, March 2008 SHOULD BE 2015 report reference.

¹⁴ Related documents include URS Corporation, "*Bay Division Pipeline 4 Reaches A and D Condition Assessment*," SFPUC, June 30, 2008.

¹⁵ Related documents include Engineering Management Bureau, Water Infrastructure Partners and Project Management Bureau, *"Bay Division Pipeline Reliability Upgrade Phase 2 AAR,"* SFPUC, July 2004.

¹⁶ Related documents include Engineering Management Bureau, Water Infrastructure Partners and Project Management Bureau, *"Bay Division Pipeline Reliability Upgrade Phase 3 CER,"* SFPUC, January 2005.

3.5 Budgeting

Since FY15, the CCSF has adopted a 2-year budget (both operating and capital). The 2-year budget is prepared and adopted during even-numbered FYs and becomes effective for the two succeeding years. The SFPUC's CIP is updated each year to coincide with the annual updates of the CCSF's CIP. Mid-budget cycle adjustments are minimized.

The capital budget process runs parallel with the Water Enterprise's operating budget requests, the 10-year Capital Plan, and the 10-year Financial Plan. During budget preparation, managers must forecast operating expenses for the next two FYs. The task requires anticipation of asset completion and the necessary staff and resources needed to maintain them. This is particularly challenging with new groundwater wells coming on line in FY18 and FY19, which involves phased testing and operation, and specialized staff. On the capital side, more iteration is required between finance staff and operations staff as they work together to complete the CIP. Rate projections, reserve balances, and financing options each affect the size of the CIP, particularly in the first 2 years of the 10-year Plans. The SFPUC has a Budget Steering Committee that guides the schedule and process for budget updates every 2 years. The budget process generally follows the schedule shown in Table 3-4, beginning in odd-numbered FYs and ending in even-numbered FYs.

Date	Budget and CIP Milestone
Spring and Summer	The SFPUC Budget Steering Committee meets to discuss budget and CIP development process.
September	The SFPUC Budget Steering Committee distributes Budget Policy and Procedures document to staff.
September	Staff receive a budget instruction memorandum from General Manager; Unifier system available for staff to submit CIP projects.
September and October	Staff submits projects in Unifier, including description of project, justification, impact if the project is not implemented, budget by project phase, proposed schedule, and risk ranking.
October and November	Executives approve potential projects, and Finance begins funding analysis.
November	Budget staff consolidates all budget submittals into proposed operating and capital budget adjustments for review by Executive Team.
December	Executive Team considers project need, financial impact, and staffing considerations to determine final proposed budget and CIP.
January and February	Commission budget workshops and adoption.
End of February	Budget submitted to Mayor/Controller's office.
March and April	Review by Mayor's Budget Analyst, City Capital Planning Committee, and Controller's Office.
May and June	Board of Supervisors budget review and adoption.

Table 3-4: Budget Update Schedule

Notes:

CIP = Capital Improvement Program

SFPUC = San Francisco Public Utilities Commission

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During the fall and before the Commission budget workshops, staff meets with the Bay Area Water Supply and Conservation Agency to review potential projects in the CIP and confirm capital program priorities. Following internal review by senior management, various Commission workshops are held to discuss the budget with staff in January and February. CIP and budget materials are publicly available in advance of the meetings, in accordance with Commission rules. Rate hearings are held later in the spring. The Mayor's office reviews the SFPUC's budget before presenting the citywide budget to the Board of Supervisors. Finally, the Board of Supervisors reviews and ultimately adopts the budget, usually in late June. Each of these reviews can modify aspects of the SFPUC's budget.

3.6 Implementation

The planning process refines and guides maintenance programs and scoping of capital projects. The major maintenance programs are outlined in detail in Section 4, along with their corresponding accomplishments from FY17 and FY18, as well as plans for future work. Maintenance prioritization in a program, and across programs, is discussed above.

3.6.1 Types of Maintenance Performed

All maintenance programs consist of different type of work orders, although most consist of work orders for either preventive or corrective maintenance. A full list of work order type is shown below for reference.

- **Preventive Maintenance:** This refers to work on a specific asset that is interval- or condition-based. Besides traditional PM, PM work orders in the CMMS include diagnostic testing, servicing and overhauls, compliance/regulatory items, and scheduled inspections. Only assets have associated PMs.
- **Corrective Maintenance:** This refers to unplanned failure or reduced performance on a specific asset that is discovered through field observation, condition assessment, report by an operator, SCADA alarm, or customer report.
- **System Operations:** This refers to work directly supporting operations, but not including maintenance-related work.
- **Capital Support (i.e., WSIP):** This refers to maintenance work in direct support of a capital or R&R project. This includes activities such as dewatering/disinfecting pipelines to support construction, performance testing, and attending project meetings.
- Administration: This work type is for O&M staff performing indirect work associated with administrative activities, such as completion of timecards (eTime), training, and safety tailgate meetings.
- **Other:** This refers to miscellaneous operational or maintenance work that does not fit the categories indicated above. One example is corporation yard maintenance.

In practice, the fundamental Reliability Centered Maintenance concept is reflected in maintenance efforts in the RWS that are focused on maintaining reliability of critical assets and

that strive to be conditions-based. Work is screened through the maintenance planning group (as described below) and reviewed by the O&M Manager to ensure that work on critical assets is prioritized prior to being scheduled and disseminated to maintenance staff.

As described above, work orders are labeled in the CMMS by type, but the planning/ prioritization process uses additional terms to delineate CM work: planned or unplanned (PM and other work order types are usually categorized as planned).

- **Planned work.** Whether corrective, preventative, or another type, a work order is considered to be planned if a job plan is written and reviewed in the CMMS, the normal approval process is followed, all permits are secured, and appropriate notifications occur. Even after an unplanned failure of asset occurs, the corresponding corrective work order could still be planned. Most planned work is routine and regular.
- **Unplanned work.** Work that skips one or more planning steps due to urgency is characterized as unplanned work. Approvals for work scope, timing, use of overtime, and job parameters can be verbal, as directed by management. Work orders in this category are sometimes created after or during the work.

3.6.2 Work Order Prioritization

This section describes the general process used to prioritize work orders for the RWS, with some differences in actual practice between WSTD and HHWP acknowledged. Prioritization by mid-level managers is required due to the volume of work, and the higher level of perspective needed to gauge the importance of potential tasks—including determining when work orders should not be performed, because the work is not cost-effective or because the work would make it impossible to maintain system reliability.

Work Order Approval and Scheduling

Once a work order has been fully developed and has been appropriately cataloged, the work order enters the approval and scheduling phase, where it is reviewed and approved by the Planning Manager. Once approved, staff may charge labor and materials against the work order until it has been closed, cancelled, or completed. Blanket work orders are usually approved at the beginning of the FY.

Blanket work orders cover only three types of work: 1) general tasks to be completed at a treatment facility by operations staff only; 2) indirect administrative work for supervisors; and 3) staff training. This type of work order is entered into the CMMS through the work request or the work order tracking screens. All blanket work orders follow the same general principles as other work orders and can appear as either child or parent work orders. However, blanket work orders are established at the beginning of each FY, and after preliminary review are immediately approved. All blanket work orders remain open throughout the FY but are closed at the end of each FY.

For all nonblanket work orders, maintenance planning staff schedule the work order depending on the priority level assigned, nature of the work, and availability of staff and materials. Work order approval and scheduling decisions are made based on the same methodology as the condition assessment program, in that work is prioritized according to the operational consequences of reduced performance level or total failure of a piece of equipment. A CM work order may involve in-kind replacement, upgrade, repair, or demolition and site remediation when the asset is no longer needed.

Work Order Priority System

After PM activities are determined to be appropriate, completion priority generally uses the same logic. That is, the first PM activities to be scheduled are those that reduce the most life-cycle cost and those that increase system reliability the most. Predictive maintenance is not currently performed, but a method using the SCADA system is being explored.

Because work orders of all types are generated on a daily basis, a standardized system is used to prioritize work based on the urgency of completion. In the CMMS, each approved work order receives a priority ranking:

(9) Emergency: The existence of an imminent threat to life or limb, an imminent catastrophic threat to the environment, or an imminent threat of catastrophic equipment failure exists (usually declared by management).

(8) Operational Failure: A personal injury, unscheduled shutdown of critical equipment, harm to the environment, or sustained breach of water quality resulting in a Regional Water Quality Control Board or SWRCB DDW violation has occurred, and immediate action must be taken.

(7) **Urgent Work:** High Probability of Failure. Urgent action needed to prevent Priority 8 or 9 occurrences. These situations are usually found during PM inspections, but may result from general observations while in an area.

(6) Regulatory Compliance PM: Regulated Testing, Maintenance, and Inspection Activities; these work orders will typically emanate from a regulating body such as the Department of Transportation (DOT), the Department of Motor Vehicles (DMV), OSHA, WECC, CPUC, Regional Water Quality Board, or SWRCB. Examples of this type of work might include DOT vehicle inspections, DMV smog testing, protective relay testing and maintenance, or ROW vegetation management inspections.

(5) High Criticality Asset PM: Preventive/Predictive Maintenance on critical assets, support of WSIP or Hetch Hetchy System Improvement Program construction projects, or a limited window of opportunity (such as a shutdown).

(4) Standard PM: Preventive/Predictive Maintenance/Safety/Code Corrections.

(3) Routine Work: Schedulable maintenance repairs, as a result of PM or general observation, regular/routine work, and cottage remodel work.

(2) Low Priority Work: Work that enhances system or mission performance.

(1) Desirable Work: No direct effect on system or mission performance if not done.

Section 3 – Asset Management Program Overview 2018 State of the Regional Water System Report

Maintenance Backlog Management

The maintenance backlog is defined simply as a combination of work orders that have been submitted and approved, but are awaiting work initiation; and work that has been identified but not yet approved to proceed. Most of the backlog tends to be low-priority work orders that continually fail to get scheduled due to the presence of higher-priority work. Backlog work orders can also consist of deferred PM. Planning staff monitor outstanding work orders and reinitiate priority ones with trades supervisors.

On a weekly basis, all work in the backlog is reviewed for potential scheduling. At WSTD, priority of the work is used first to screen the work that gets scheduled. In each priority group, assuming all things are equal, the "oldest" work order is scheduled first. The remaining work is scheduled according to "age," in descending order, until either the schedule is full or there are no more remaining work orders among that priority group. Any work order older than one FY is cancelled. Meetings among mid-level managers and trades supervisors ensure that priority work remains in the system.

HHWP staff place work requests into a backlog where managers responsible for their specific work groups approve and commit resources to jobs that are to be performed in the upcoming 30 to 45 days. The HHWP's Asset Management Services group plans and schedules maintenance activities for crafts 7 to 14 days in advance to allow for sufficient notification and coordination to occur.

Performance is tracked using metrics that evaluate:

- labor availability;
- actual work performed on Scheduled versus Unscheduled work (1 week in advance); and
- actual work performed on Forecast work (2-week look-ahead).

As schedule success increases, reactive work decreases, demonstrating an improvement in the maintenance and management of HHWP assets.

Hetch Hetchy is always striving for continual improvement in its maintenance program, which is demonstrated by the implementation of a comprehensive work order life cycle. The work order life cycle begins with initiation and continues through review, approval, execution, feedback, closeout, and updating job plans and asset information as appropriate, all of which are documented by standard operating procedures. This process ensures a standardized approach across all work groups that is measurable and encourages staff participation at all levels.

3.6.3 Capital Project Completion and Closeout Reporting

One of the major responsibilities of the SFPUC during the WSIP is to ensure that appropriate asset management deliverables are received by operations staff and archived by project teams and contractors prior to project closeout. These deliverables include complete sets of equipment manuals (also called O&M Manuals), warranty information, record and as-built drawings, equipment inventory sheets, and in some cases specialized trainings, operating permits/ agreements, and service agreements.

Project closeout is an important step in the overall asset management program. When asset management deliverables are received at project closeout, the information is incorporated into the asset management program. For example, asset inventory data such as equipment lists and identifications are incorporated into the CMMS asset register. Manufacturer-recommended PM cycles are used to develop job plans and PM schedules.

WSIP Construction Management Procedures 32 and 33 describe the Contract Closeout and "Record Documents" submittals, respectively. The Contract Closeout procedure outlines the process by which verifications are made for satisfactory completion of contract work. The Record Documents procedure specifies the process by which record information is collected and documented in construction drawings and at completion of projects, and by which final project record documents are produced, certified, and archived. Projects designated as completed (meaning Final Completion) have 3 to 6 months before the project is closed out. During that time, O&M manuals, Equipment Data Sheets, and Record Drawings are collected and compiled.

WSIP closeout deliverables are audited each quarter and reported to the WSIP and Water Enterprise management, with formal reports beginning in FY12. The most recent tracking sheet is included in Appendix G. As shown in Appendix G, outstanding deliverables exist. Accordingly, Water Enterprise staff actively pursue these deliverables with the various WSIP project teams. Obtaining deliverables from the earliest WSIP projects can be costly (and often unbudgeted)—and difficult, because the earliest projects worked off of less-complete specifications in this area. Still, comparing Appendix G from the 2012 version of this report (when the data were first tracked) shows the task to be nearly complete after years of effort.

Warranty periods are also tracked so that operations staff can thoroughly test components and/or inspect them prior to the expiration of contractor or supplier warranties. Advanced planning is required for inspections of interior pipeline linings, because these actions require additional facility shutdowns at the same time as construction-driven shutdowns.

3.7 Ongoing Program Implementation

Going forward, the approach to maintenance is to reduce the CM and move toward more PM and even predictive maintenance. As more PM is implemented, more costly CM should be avoided. Predictive maintenance will be implemented in situations where it can be shown to be cost-effective.

With WSIP construction winding down in FY19, a big initiative in the coming years will be to ensure that asset inventory is accurate (adding new assets, deleting obsolete or replaced assets, and maintaining existing assets). Rehabilitation and upgrade projects occurring at the same facility make this a challenge. Implementing this shift in approach requires acceptance of ownership and associated responsibilities of all new assets constructed and/or installed in the RWS as part of the WSIP.

Another area of improvement is to accurately record total maintenance and R&R costs of assets in the RWS. Currently, maintenance functions are performed by multiple divisions and groups in the SFPUC, city departments outside the SFPUC, and outside specialists. Finally, significant maintenance is performed in treatment facilities as part of the daily work routines of assigned water treatment plant staff. This work should be better integrated into the CMMS for a more complete picture of asset management at these facilities.

APPENDIX C Interview Questions



ASSET REGISTRY

- Please discuss the procedures for creating and modifying assets. In particular, please address QA/QC and establishment of maintenance programs for the asset.
- Please discuss the level of completeness of the asset registry in Maximo. Speak to the asset listing and attributes.
- Please discuss the asset hierarchy. How do you use it? Is it used consistently and uniformly across the Enterprise?
- Please discuss the Asset Classification Domain and its versatility in classifying assets. There appear to be a mix of asset classifications as well as projects, problems, etc. in the Domain.
- Please discuss the asset attribute domain and its versatility in describing asset characteristics or details. To simplify domains, are subtype used as well as descriptive attributes?
- How does SFPUC determine assets to be included in the fixed asset registry and Maximo

Do you have a policy that defines an asset for these purposes?

• Is the asset registry audited or reviewed for accuracy at some frequency? If so, what is the frequency and what is the procedure?

IT CAPABILITIES TO SUPPORT AM

Please discuss or identify the software tools used for asset management.

- Please provide a Data Flow Diagram and discuss the integration functionality between asset management systems
- Please discuss the modules used with Maximo.
- Please discuss the discovery tools you use for asset management systems.
- Please discuss the platforms in use for mobile or remote connectivity.
- Please discuss the IT support roles and staff dedicated to asset management. Please include contract vendors.
- Please discuss your replacement policy for asset management software tools and network infrastructure.
- Please discuss the budget for IT support and services. Please focus on staff and replacement of hardware and software. Please address license and maintenance renewal contract management
- Please provide and discuss your network diagram.
- Please discuss the Patch Management Plan for Asset Management systems.
- Please discuss the network security plan for asset management systems including mobile connectivity.



RISK PROCEDURES

- Please discuss SFPUC's Risk Policy. Please speak to the definitions of risk parameters, the interpretation of the risk parameters to assign a risk rating, and the thresholds for action.
- Does SFPUC have a formal process to evaluate criticality? Please speak to a schedule for evaluating risk parameters, criticality and the risk register.
- The 2018 State of the Regional Water System Report mentions an Asset Risk Tool. Please describe what this tool provides.
- Are risk and the risk parameters contained in the asset registry? Please discuss.
- Please discuss the criticality criteria in use for all assets. What are the core parameters and criteria? How are they weighted?

O&M IMPROVEMENT

- Please discuss your preventative and predictive maintenance program.
- Please discuss the business processes/practices in use for work management. How is Maximo used during the work order lifecycle?
- Please discuss/describe the data that is collected and how it is used to evaluate asset performance.
- Please discuss how work is prioritized. Please discuss how work backlog is managed.
- Please describe the work management data collected. How is it used to monitor performance and improve efficiencies?

CONDITION ASSESSMENT AND REMAINING USEFUL LIFE (RUL)

- Please discuss how condition assessments are performed for all regional SFPUC assets.
 What interval are assets evaluated?
 What tiers of assessment are performed?
 How are assets selected for detailed evaluation?
- Please discuss the criteria in use for all assets and classifications. What are the core parameters and criteria? How are they weighted?
- Please discuss how the remaining useful life of assets are assessed and quantified. Please incorporate policy and procedure into your response.
- Is the RUL program audited or reviewed for accuracy or new methodologies assessed at some frequency? If so, what is the frequency and what is the procedure?
- Is asset condition noted and maintained in the asset registry? Please discuss.



REPLACEMENT PLANNING

- Please discuss how infrastructure rehabilitation and replacement is forecast and planned.
- Please discuss how infrastructure rehabilitation and replacement is funded.
- Does an expenditure policy exist for infrastructure rehabilitation and replacement? Please Discuss.

SERVICE LEVEL GOALS

• Please discuss if and how Service Level is interpreted at the asset level for decisionmaking.

Please incorporate how Maximo is utilized in your discussion.

CONNECTION TO OTHER PLANS I.E. STRATEGIC PLAN, CIP, ETC.

• The Fiscal 2020 Strategic Plan has a goal to provide reliable service and value to customers. Please discuss how SFPUC is implementing the Objectives.

OBJECTIVES

1. Establish quantifiable operational and capital Level of Service (L.O.S) goals by enterprise.

2. Formalize our asset management approach across SFPUC.

3. Establish a uniform investment prioritization process linked to asset management priorities across SFPUC.

4. Ensure SFPUC can mitigate, respond to, and recover from threats and disasters.

SUPPLY CHAIN

- Please discuss your procedures, policies and processes for supply chain. Please speak to how Maximo is used in the office and remotely, and warehouse management practices and accounting rules for inventory control.
- The Item Master provided for review primarily includes consumables such as nuts, bolts, janitorial supplies, etc. Please comment on your inventory of spare parts, critical spare parts, critical assets, etc. that apply directly to managed assets.
- Please discuss the management of warehouses and the layout of inventory (shelving and row layout, etc.).

Please discuss how virtual warehouses are managed, if any.

- Please discuss any process of linking warehouse issuances to work orders including kitting and reservations.
- Please discuss your inventory control practices.



STAFF PLAN

• Please discuss the staff roles dedicated directly to asset management practices.

Please address Warehouse Technicians and Managers, Maintenance Schedulers, Data Managers, and IT Staff.



INTRODUCTION

The following questions are intended to generate discussion about San Francisco Public Utilities Commission's (SFPUC's) asset management program. Together with the data supplied by SFPUC, the discussion surrounding these questions will be used to evaluate the current asset management program.

Please prepare to discuss each question as it relates to both Hetch Hetchy Water and Power (HHWP) and the Water Supply and Treatment Division (WSTD). In some cases, responses may differ between the two divisions and it will be important to quantify the extent of the program related to each operating division.

HHWP Response to Questions			
Criteria	Sub Criteria	Description	Question
Asset Registry	Business Processes for Asset Creation and Modification	Business Processes are developed and followed such that asset registry is maintained at highest level of accuracy.	Please discuss the procedures for creating and modifying assets. In particular, please address QA/QC and establishment of maintenance programs for the asset. Assets with a value of \$5,000 and greater, or assets which require maintenance are entered in Maximo. Assets are created by AMS personnel only. New assets are entered by 7262 Maintenance Planners. HHWP has a documented procedure for entering Rotating Assets (MAXSOP-1056); however, we do not have a procedure for creating Assets, although many of these steps are similar. We currently do not employ a formal QA/QC process for asset data entry. We expect this to be identified in the ISO 55001 Gap Analysis. Maintenance programs for assets are taken from manufacturers recommendations and compiled by the 7262 Maintenance Planners into the Maximo PM module and submitted to HHWP Engineering for review and approval.
	Asset Registry	Asset Registry is complete and represents an appropriate cross-section of assets.	 Please discuss the level of completeness of the asset registry in Maximo. Speak to the asset listing and attributes. There are 17,381 Operating assets listed in the HH site in Maximo. Of these, 9013 have asset classifications. I would estimate there are approximately 85% of HHWP assets listed in Maximo. As new assets are created in Maximo, classifications are assigned, and attribute information is populated. Previous versions of Maximo relied upon a Keyword field. This field was more extensively used. There are some 14241 assets with Keyword identifiers. We continue to catch up.
	Asset Registry Hierarchy	Asset Hierarchy is well-defined and provides sufficient detail to assess cost, risk, and work at multiple levels.	Please discuss the asset hierarchy. The HHWP Asset/Location hierarchy is under reconstruction. We are transitioning to a Location based hierarchy, which will facilitate navigation from the Site level to the component or assembly level within the Location module. This will provide many benefits, including ease of navigation, the ability to leverage naming conventions in the Location module, the use of auto-numbering for assets (as the location will provide precise information), the use of Maximo Systems with greater accuracy, the ability to classify locations to facilitate more meaningful reporting information, and the elimination of pseudo assets.



			How do you use it?
			As we transition, we are still able to report costs at the asset and location level at any point in the hierarchy. We continue to use the hierarchy to sort, group, and store assets. Is it used consistently and uniformly across the Enterprise?
	Asset Classification Domain	Asset Classification structure is sufficiently detailed to define assets individually by type without significant generalization.	Please discuss the Asset Classification Domain and its versatility in classifying assets. The Maximo Asset Classification Domain is very versatile. We are able to build hierarchies within the domain. This will be useful to ascertain a better understanding of our assets. Rather than simply looking for valves, we can set up the hierarchy with sub-types of valves. There appear to be a mix of asset classifications as well as projects, problems, etc. in the Domain. That is correct – there is no enforced asset classification standardization.
	Asset Attribute Domain	Asset attributes are detailed by classification to provide sufficient asset data and knowledge.	Please discuss the asset attribute domain and its versatility in describing asset characteristics or details. The attribute domain is very versatile. Every attribute is available to add to a classification, and if an attribute does not exist, it is easy to create a new one. To simplify domains, are subtypes used as well as descriptive attributes? We use descriptive attributes as well as classification sub- types.
	Asset Definition	A definition of an asset, for the purposes of asset management planning, exists and is used to develop the asset registry.	How does HHWP determine assets to be included in the fixed asset registry and Maximo? Assets with a value of \$5000.00 and greater, or assets which require maintenance are entered in Maximo. Do you have a policy that defines an asset for these purposes? There were draft policies and guidelines created, but I do not know if they were ever adopted for the SFPUC.
	Policy for updating asset registry	A policy is in place that provides for the review of the asset registry and updating on a regular basis.	Is the asset registry audited or reviewed for accuracy at some frequency? There isn't a formal audit procedure. If so, what is the frequency and what is the procedure?
IT capabilities to support AM	List of software tools such as Maximo, GIS, InfoAsset, etc. including version		Please discuss or identify the software tools used for asset management.
	Data Flow Diagram	A data flow diagram is in place that documents data integrations between asset management software tools.	Please provide a Data Flow Diagram and discuss the integration functionality between asset management systems
	Modules for software tools		Please discuss the modules used with Maximo.



	Discovery Tools	Discovery Tools are in use for hardware and software.	Please discuss the discovery tools you use for asset management systems.
	Mobile connectivity Platform	Mobile computing is in use on a reliable network system.	Please discuss the platforms in use for mobile or remote connectivity. How are mobile units being used? What information is being collected? What information is being provided to the mobile units?
	IT Staffing dedicated to Asset Management Systems	Sufficient staff positions are authorized and filled that are dedicated to management of Asset Management hardware and software management. Vendors are contracted for support as needed.	Please discuss the IT support roles and staff dedicated to asset management. Please include contract vendors.
	Infrastructure replacement and refresh policy	A policy is in place for the replacement of aging IT infrastructure including hardware and software dedicated to asset management.	Please discuss your replacement policy for asset management software tools and network infrastructure.
	IT budget for asset management hardware and software support.	Sufficient budget is allocated for IT hardware, software, and staff.	Please discuss the budget for IT support and services. Please focus on staff and replacement of hardware and software. Please address license and maintenance renewal contract management
	LAN/WAN Platforms (diagram/map)	Local Area Networks (LAN) and Wide Area Network (WAN) plans are developed that document network configuration.	Please provide and discuss your network diagram.
	Patch Management Plan	A Patch Management Plan is in place and is followed to keep software products current to achieve optimum performance.	Please discuss the Patch Management Plan for Asset Management systems.



	Security Plan – Public/Private access, Firewall	A Security Plan is in place that provides security against cyber threats.	Please discuss the network security plan for asset management systems including mobile connectivity.
Risk procedures	Risk Policy	A Risk Policy is in place that interprets Criticality and Condition to develop Risk Ratings for assets as well as defines thresholds for action based on Risk.	Please discuss SFPUC's Risk Policy. HHWP is currently working with a consulting firm to develop a risk-based capital planning tool. This tool will take an asset centric view as well as a project centric view to ascertain system risk. Please speak to the definitions of risk parameters (e.g. LOF/COF factors), the interpretation of the risk parameters to assign a risk rating, and the thresholds for action. Likelihood of Failure will be based on asset age and Iowa curves. This data will be modified using maintenance records, where appropriate, to ascertain effective asset age. Consequence of failure categories and weightings are being developed. Once these have been completed, assets will be scored. It must be noted, at this point in our maturity, we will not be including all 17000 assets in the risk model. We are beginning with a sample of representative assets at the assembly level.
	Business Process for Criticality Assessment	A structured process is in place to evaluate system and asset criticality.	Does SFPUC have a formal process to evaluate criticality? HHWP is developing a process to evaluate criticality based on COF, as it impacts levels of service. Please speak to a schedule for evaluating risk parameters, criticality and the risk register. HHWP is actively working on this now. A completion schedule has not been established.
	Description of Risk management tools currently in use	Risk assessment tools exist and are used to evaluate criticality and condition of assets and systems.	The 2018 State of the Regional Water System Report mentions an Asset Risk Tool. Please describe what this tool provides. The Risk Based Capital Planning tool, currently under development, will provide an overall view of risk, based on asset condition. It will also show how that risk is mitigated, based on capital improvement projects due to be performed. The tool will also allow for what if scenarios. The tool is being configured to evaluate risk at the functional level, facility level, or the asset class.
	Risk Register	A Risk Register is in place for all systems and assets.	Are risk and the risk parameters contained in the asset registry? Please discuss. Maximo currently has an Asset Risk tab. It was configured based on work done at the SFPUC Waste Water Enterprise. HHWP has entered data for some assets into this tab. After working with the consultant, we realize the current configuration will not suffice. It is my preference to house asset data in Maximo, so additional assets can be added to the model as we mature; and let the Risk Tool house the data it creates.
	Criticality criteria and definitions	Criticality criteria and definitions are in place.	Please discuss the criticality criteria in use for all assets. What are the core parameters and criteria? How are they weighted? Whilst these are still being refined, the core parameters are: 45% - Water Delivery 5% - Power 15% - Regulatory/Contractual/Environmental 15% - Safety 5% - Public Perception



			15% - Operational Flexibility
			The criteria for each are still under development.
O&M improveme nt	Maintenance Management	Preventative maintenance activity is performed as required by the manufacturer or the specific asset performance.	 Please discuss your preventative and predictive maintenance program. HHWP's preventive maintenance program is based, primarily, on manufacture's recommendations. Any deviations are evaluated and approved by HHWP Maintenance Engineering. Preventive maintenance activities are compiled in the Maximo PM module, and the ensuing work orders are scheduled accordingly. HHWP does not currently engage in predictive maintenance.
	Maintenance Management	Predictive maintenance activity is performed as required by the manufacturer or the specific asset.	
	Maintenance Management	Business Processes exist for work and maintenance management.	 Please discuss the business processes/practices in use for work management. How is Maximo used during the work order lifecycle? At HHWP we currently schedule the work activities of thirteen shops. We have a dedicated Planning and Scheduling section to coordinate and schedule work for these shops. The Planning and Scheduling section comprises two 7219 Maintenance Schedulers, four 7262 Maintenance Planners, one 5602 Clearance Planner, and one 7263 Planning and Scheduling Manager. Weekly work schedules are coordinated, compiled, executed and reported against. The work management process begins and ends with Maximo. Whether it is an ad hoc work order, a PM work order, or a capital improvement project work order, it begins in Maximo. Requests for ad hoc work are submitted via the Service Request (SR) module in Maximo. The Planners address the SRs and create the ensuing work orders. PM work orders are generated, by our Schedulers, every week, with sixteen days lead time to allow for advanced scheduling. Project work is created by the Planners from SR's submitted by the Project Manager. Where practical and effective, material is preloaded into the job plans of PM work orders. Ad hoc work orders requiring material have that material included in the work plan of the work order prior to work order approval. Section Managers are accountable for the work their crews perform, and they must approve their work orders. Material and labor estimates are available to the approving manager, within the work order. Once approved, work orders can be scheduled. The schedules are compiled by the Schedulers, based on our Logical Process. The schedule is conveyed to the Section Manager for review and comment. Following review and comment, the Schedulers make any requested changes and issue the Final Schedule. The work crews execute their scheduled work and record time against the work order, via eTime. Work logs are entered by many of the of the crews, and more are following
	Maintenance Management	Asset performance data are collected and	Please discuss/describe the data that is collected and how it is used to evaluate asset performance. A Reliability Reporting pilot program was discussed, compiled, and agreed upon, by management and the assembled team.



	available for analysis.	This program is designed to identify, respond, repair, analyze, and implement mitigation measures to prevent future occurrences of a similar kind. This program will provide the following data, Asset Availability, Asset Reliability, Mean Time Between Failure, and Mean Time to Repair. The program will provide documented work packages of each incident. These packages will be structured in a manner that allows for total cost reporting and ease of communication to see what each craft involved did on the job, through the use of work logs of all related work orders from the originating work order.
Work Management	Work is performed efficiently based on asset and work prioritization.	Please discuss how work is prioritized. Work orders are prioritized according to MAXSOP-1002 (cell F76 in the response document) when they are created. This provides a guide to scheduling. HHWP has developed a weekly communication process beginning with the Management's Objectives Meeting, which is held each Tuesday at 1:00. HHWP managers review and comment on work to be performed in the near (up to six seeks) and long (up to six years) term, establishing priority and windows of opportunity. These priorities are disseminated to the crews via the Operations Meeting, held on Thursdays at 07:30, focusing on the next week. All of the work for the week being discussed will appear on the schedule for that week. Please discuss how work backlog is managed. To manage the backlog of work, work orders are segregated into different statuses. Work orders begin in WAPPR (waiting approval), they are planned and reviewed and put in a status of PAPPR (Planner approved), indicating they can now be scheduled. Managers may place a work order in the QUEUE (four to twelve weeks out), COMMIT (approved and to be done within four weeks), or to place them on the next schedule, where they will go to INPRG (in progress). We provide managers with a graphical report of their backlog (cell ### in the response document). This report is an interactive display of their work load (their Bucket). It is an image of a Bucket, stratified into the statuses mentioned above. Managers may indicate a status change in this report, and AMS will make those changes in Maximo.
Work Management	Work Management data are collected and available for analysis.	Please describe the work management data collected. How is it used to monitor performance and improve efficiencies? HHWP measures schedule compliance. HHWP issues weekly work scheduled to its crews, and we measure compliance with those schedules. We measure Crew Availability, Supervisor Deployment, Management Effectiveness (Logical Performance), we combine Crew Availability and Supervisor Deployment to gauge Schedule Performance, and we combine Schedule Performance and Management Effectiveness to gauge overall Schedule Effectiveness. We periodically look at Actuals to Estimates to revise PM estimates and check job plans. We publish PM Generated vs PM Completed, as a measure of our ability to keep up with our maintenance programs. Work order data is also used to perform staffing analysis. We look at the demand on a work group in a given period, analyze their completion ratio for all work types, and apply that ratio to incomplete work created in the period being analyzed. It is understood work not completed was effort spent working on tasks created in a different period from that being analyzed.



Condition Assessmen	Business Process for	A structured process is in	Please discuss how condition assessments are performed for all regional SFPUC assets.
t and	Condition	place to	At what interval are assets evaluated?
Remaining Useful Life	Assessment	evaluate system and asset	What tiers of assessment are performed?
(RUL)		condition.	Please explain.
(How are assets selected for detailed evaluation?
			(Please see 2018 SWRS Report.):
			The assets in the RWS are periodically inspected through three separate assessment programs, each essentially using a risk-based approach: 1) fixed assets, 2) linear assets, and 3) dams.
			The first program addresses fixed assets. Facility inspections are prioritized and repeated every 3 to 10 years, depending on each facility's importance in meeting LOS. At HHWP, condition assessments on critical assets with a life expectancy of greater than 25 to 30 years are performed on a case-by-case basis. Early in the asset's life cycle, inspections and limited assessments coincide with scheduled maintenance activities. As assets move through their life cycle, the information gathered from previous preventative maintenance reports as well as from performance deviations identified by operators is used to schedule more comprehensive condition assessments. For critical assets with a lesser life expectancy, assessments are built into the asset's routine preventative maintenance program.
			Linear assets (e.g., pipelines and roads) are assessed with a second program. Inspection frequency is dictated by pipeline conditions, ability to shut down the pipeline (usually the pipelines must be drained), operational problems associated with pipeline failures, potential liabilities, and the rate of degradation observed in prior inspections.
			Dams use a third inspection and monitoring program, usually performed with regulatory oversight. The program is conservative, considering the high liability associated with dams, and the importance to the region's water supply. The major components of the program consist of: regular inspection and monitoring, regulatory reporting, maintenance, repairs, planning studies (stability studies, inundation map updates, and other), and emergency planning. For all three condition assessment programs, a risk-based approach recognizes two key components: consequence of failure and probability of failure.
	Condition criteria and	Condition criteria and definitions are in place.	Please discuss the criteria in use for all assets and classifications.
	definitions		What are the core parameters and criteria?
		- Pid00.	How are they weighted? These processes are currently in development through the
			development of asset management plans for each asset category.
	-	Asset condition is monitored in	Is asset condition noted and maintained in the asset registry? Please discuss.
	Register	the asset registry.	There is a field in the Asset Registry to store a numeric rating of asset condition. The results of the 2009 power asset condition assessments have been entered into Maximo. RUL is currently based on age (installation date) minus life expectancy. However, Maximo does not currently drive replacement of assets.
			As we progress with the risk tool, we will rely upon the installation date, condition data, survivor curves, and likelihood



			of failure to contribute to the risk analysis to prioritize asset replacement.
	RUL	Policy, procedures, and criteria for estimating RUL of assets are in place and RUL assessments are performed in accordance with the policy.	Please discuss how the remaining useful life of assets are assessed and quantified. Please incorporate policy and procedure into your response. Hetch Hetchy Water and Power does not have a policy for establishing or estimating the remaining useful life (RUL). Traditionally we have used lowa Curves, engineering judgement, and adjustments for condition assessment.
	Policy for updating RUL	A policy is in place that provides for the review of estimated RUL of assets on a regular basis.	Is the RUL program audited or reviewed for accuracy or new methodologies assessed at some frequency? If so, what is the frequency and what is the procedure? Please see above response.
Replaceme nt Planning	Rehabilitation and Replacement Planning	Infrastructure rehabilitation and replacement planning methodology is in place and planning is conducted in accordance with the methodology.	Please discuss how infrastructure rehabilitation and replacement is forecast and planned. What is the frequency of updates to the plan? Capital projects that support the RWS are organized into a 10- year CIP that is adopted each year and integrated into the SFPUC's Financial Plan and rate-setting calculations. Major updates to the CIP generally happen every 2 years, in coordination with the overall budget process (see Section 3.5 of the State of the Regional Water System Report). For budgetary purposes, the RWS CIP is contained in two planning documents: the Water CIP (Section 5.2.1) and the HHWP CIP (Section 5.2.2). The Water CIP includes capital projects related to the RWS west of AEP, TTF, and the retail-funded local distribution system. The HHWP CIP includes projects east of AEP funded by water revenues (retail and wholesale), power revenues, and projects funded jointly from each enterprise.
	Rehabilitation and Replacement Funding	A funding plan is in place and maintained for infrastructure rehabilitation and replacement.	Please discuss how infrastructure rehabilitation and replacement is funded. Please see response above.
	Rehabilitation and Replacement Expenditure Policy	A policy for the expenditure of rehabilitation and replacement is in place and funds are allocated in accordance with the plan.	Does an expenditure policy exist for infrastructure rehabilitation and replacement? Please Discuss. HHWP uses CCSF Accounting Policies & Procedures as well as the Controller's Office Fixed Asset Definitions & Guidelines to determine expenditures that qualify as fixed assets and are therefore eligible for Rehabilitation and Replacement funding.
Service Level Goals	Service Level definitions for asset management	Service Level goals are defined and applied to each asset as appropriate.	Please discuss if and how Service Level is interpreted at the asset level for decision-making. Please incorporate how Maximo is utilized in your discussion. As part of the Risk-Based Capital Planning tool inputs, HHWP is developing a process to evaluate criticality of each asset based on consequence of failure (including Levels of Service)



			and likelihood of failure. For Levels of Service, we created criteria for ability to deliver and frequency and level of rationing. Maximo will be used to store asset information (asset age, and condition, etc.) to be used in calculating likelihood of failure.
Connection to other plans (ie: Strategic Plan, CIP, Master Plans, etc)	Capital Improvement Plan	Asset Management plan elements and principles are an integral part of other planning documents where asset renewal, funding, and replacement are considered.	The Fiscal 2020 Strategic Plan has a goal to provide reliable service and value to customers. Please discuss how SFPUC is implementing the Objectives. OBJECTIVES 1. Establish quantifiable operational and capital Level of Service (LOS) goals by enterprise. 2. Formalize our asset management approach across SFPUC. 3. Establish a uniform investment prioritization process linked to asset management priorities across SFPUC. 4. Ensure SFPUC can mitigate, respond to, and recover from threats and disasters.
Supply Chain	Business Process and Policy for Supply Chain	Business Processes and Policies for Supply Chain are in place and followed.	 Please discuss your procedures, policies, and processes for supply chain. Please speak to how Maximo is used in the office and remotely, and warehouse management practices and accounting rules for inventory control. Maximo is our system of record for inventory control and asset management to include the following functions: service requests, work order generation, purchase requisition/order processing, material receiving, bill payment, tools, and critical spare-part management. Inventory purchasing is accomplished through a dedicated chart of account (COA) and utilizes a re-order report, generated from MAXIMO, to inform re-order decisions made by warehouse staff. All inventory items are designated with an item number that have corresponding bin location/storeroom association. Inventory items are received in Maximo, placed in the proper bin location, and then issued with a Maximo Work Order as required. Work orders (required for stock issues) are typically charged to specific a job/asset and the appropriate COA used for that job. Although used by field personnel to generate work orders and conduct assessments, Mobile Maximo is not used for inventory management purposes.
	Item Master Export	Item Master is developed and applied to assets in the asset registry.	The Item Master provided for review primarily includes consumables such as nuts, bolts, janitorial supplies, etc. Please comment on your inventory of spare parts, critical spare parts, critical assets, etc. that apply directly to managed assets. Consumable material is the cornerstone of our inventory. However, we do track a critical spare inventory in MAXIMO. Critical spares possess unique item numbers and are stored in designated bin locations throughout the project. Item Master module contains both Active and Inactive items. Currently, HHWP tracks 2300 active inventory items and only 75 critical spares. Critical spares are linked to specific assets in MAXIMO and are managed jointly between Materials Management and Asset Management sections. Use of a critical spare requires a work order to "issue" the critical spare to a specific job or asset and corresponding cost center.



	Warehouse	Warehouses	Please discuss the management of warehouses and the layout
	Management	(virtual or physical) exist	of inventory (shelving and row layout, etc.). Please discuss how virtual warehouses are managed, if any.
		with inventory managed in logical rows, shelves, bins,	All Moccasin inventory items possess fixed location in our warehouse. Items are sorted, stored, and tracked utilizing a series of shelving, bins, and racks.
		etc.	Items are located and stored by warehouse isle/row/bin (e.g. 7- 3-4).
			Virtual warehouses are not used at HHWP for inventory stock items.
	Warehouse Management	Supply chain processes are connected to the Work Order.	Please discuss any process of linking warehouse issuances to work orders including kitting and reservations. All warehouse issues are charged to a work order.
	Warehouse Management	Parts are reserved	Typically, items are not reserved; however, reservations are occasionally used with "pre-loaded" work orders that are created by our Asset Management Team.
		against work orders.	These work orders reserve items and typically track back to assets and help inform overall project costs for planners and project managers. Kitting is not done at HHWP although it could be done at any time.
	Warehouse Management	Physical and Cycle Counts are performed at regular intervals.	Please discuss your inventory control practices. SFPUC Finance and Hetch Hetchy Management require an annual inventory for accountability and to maintain inventory control. Physical inventory procedures are specified in the Materials Management Standard Operating Procedure Manual. At the end of each fiscal year, warehouse staff perform a physical count of materials to verify inventory quantities and values in MAXIMO and F\$P. Additionally, the San Francisco Administrative code requires that every other year a full inventory must be completed by staff not involved in the warehouse processes of purchasing and receiving inventory. The biennial inventory results are summarized in a memo to SFPUC Management from SFPUC Finance. Additionally, cycle counts are conducted on an ongoing basis to ensure that the on-hand inventory as indicated in Maximo is correct and up-to date. Cycle count procedures are specified in the Materials Management Standard Operating Procedure Manual.
Staff Plan	Staff matrix and job description	Staff matrices and job descriptions dedicated to support work and asset management exist.	Please discuss the staff roles dedicated directly to asset management practices. Please address Warehouse Technicians and Managers, Maintenance Schedulers, Data Managers, and IT Staff. HHWP Asset Management Services comprises the following positions, 0931 Asset Management Services Manager (1) 7262 Asset Planner (2) 7263 Planning and Scheduling Manager (1) 7262 Maintenance Planner (4) 7219 Maintenance Scheduler (2) Materials Management/Warehouse Operations positions include the following: 1944 Materials Coordinator (1) 1942 Assistant Materials Coordinator (2) 1931 Senior Parts Storekeeper (3) How often are the staff needs updated?



	Staffing needs are comprehensively evaluated each two-year budget cycle.

APPENDIX E HHWP West Yost Meeting Notes



		HHWP West Yost Meeting Notes
Criteria	SubCriteria	HHWP Meeting Notes
Asset Registry	Business Processes for Asset Creation and Modification	Asset Registry, Business Process for Asset Creation and Modification. Procedures for creating and modifying assets. Assets are \$5K or greater. Assets come in many different ways - purchased thru cap budget - good tracking on those. Assets through CIP are slow to come, and when they arrive are overwhelming and then back-burnered. Have a lot to do in this area. Audit in the field to compare with Maximo? No, don't currently do this. Would be desirable. Don't really have the resources to do this.
	Asset Registry	Have 17,400 assets in Maximo. Jeff believes this is 85 to 90 percent of assets. Over 9000 have asset classifications. Some attribute information may be missing. As new assets are created, classes are assigned, attribute information is completed. 14,200 have a key word. Still catching up in this area. Per Mike, looking only at Regional Water System. If Scott were to break down to water system, would be close to 90 to 95 percent. Valves are there, pipelines are there. Need more accurate information - replacing pipes with different material types. SJPL broken down into PL1, 2, 3. Some segments being replaced with pipelines of different materials. These are not yet documented. This should come up in the gap analysis. Not using the Maximo linear application. Would use a location hierarchy to delineate a segment. SJPLs 1, 2 and 3 are single assets. Crossovers - SJPL 4 (6.5 miles) Oakdale to first crossover. SJPL4 segment 2 (9-11 MILES), crossover 3 to Tesla Portal. Asset Registry is miles long - 50 miles Oakdale to Tesla. Water assets more complete than electrical side. PHs have a lot of small components. On the water side, have a more complete picture. May not be capturing everything at the crossovers.
	Asset Registry Hierarchy	Asset Hierarchy. Jeff wants to reconstruct hierarchy to better navigate to the component level. Use the structure for reporting. Can report at facility or subassembly level. Can navigate to the items. e.g. fleet all in one area. Would like to make navigation easier and make reporting more meaningful. Mike asked for example areas, places, facilities, assemblies, subassemblies, component. To make things findable, start with O'Shaunessy,, Moccasin, Foothill Tunnel. Break things down by area. When using the system, and if you were interested only in water conveyance, could then see all of it as a system, rather than by area. Would not need to wade through power equipment, etc. Would be able to report out by system. When using location, would asset assembly be location? For example. Oil pressure sets tank, two pumps, compressor. Each of these are sub-assemblies in the OPS. Pump 2 location pump and motor. This allows to auto-number assets in the system. Current hierarchy is a mix. Makes navigation difficult. Provided WY with hierarchy on previous go round.
	Asset Classification Domain Asset Attribute Domain	Asset Classification Domain, Asset Attribute Domain. Classification system in Maximo is good. For better or worse can create assets at Division level without SFPUC approval. Was an effort to get everyone to use a template for motors, for example. That didn't go well. Everyone documents things differently. HHWP tries to keep things simple. Attribute that is created is available, or can create an attribute on the fly. Is there an interest to standardize classifications? Scott - yes. He would like to be able to say how many transformers do we have? What about tunnels - are they lined, unlined. Valves - what type of valves, how are we exercising them. Current classification is valve with subtype. If they need something different, will look to the gap analysis. Need to know exactly what they are looking for right now. Would be good to break it out to make it easier to tabulate information.
	Asset Definition Policy for updating asset registry	Asset Definition - what is used to define asset? \$5K or greater this is the amount that SFPUC wants to track. Asset - typically they would have to do something to it. Turbidity meter - go out and flush it. Venturi meter - need to calibrate it.



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IT capabilities to support AM	List of software tools such as Maximo, GIS, InfoAsset, etc. including version			
	Data Flow Diagram			
	Modules for software tools			
	Discovery Tools			
	Mobile connectivity Platform			
	IT Staffing dedicated to Asset Management Systems			
	Infrastructure replacement and refresh policy			
	IT budget for asset management hardware and software support.			
	LAN/WAN Platforms (diagram/map)			
	Patch Management Plan			
	Security Plan - Public/Private access, Firewall			
Risk	Risk Policy	Risk procedures - Risk Policy. Currently, building a model. Looking at assets		
procedures	Business Process for Criticality Assessment	and the POF, LOF. When it comes to SFPUCs risk policy, not specific information. What assets do I have to have in place to meet LOS. Translate LOS into risk. Have developed a mapping - water reliability, power reliability, safety, etc. Based on LOS, this is how they are defining LOF and COF. LOF based on lowa curves. Age of asset is in Maximo. Working with consultant to		
	Description of Risk management tools currently in use	use lowa curves. Sometimes where they don't use equipment as hard, can modify the information based on performance. COF is looking at LOS. Look at modes of failure, how many months would they be out. Defining LOF and COF. Classic risk matrix - in the process of developing it. By the time they are done, will have a 5 x 5 matrix to develop a heat map for assets. What is different, will look at a string of linear assets that are needed to deliver water. Look at the entire train, not individually. Historically, power assets have not been looked at in relation to water delivery. Rim Fire - had to de-energize.		



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		Put water through bypasses, which they can do for a limited period of time. With the risk definition, is there a policy? For example, 5s need to be replaced. Per Margaret, all depends on money. Will be a stepwise analysis, looking at whether it is a 5 for safety, 5 for delivery. Working through this over the next couple of years. Risk model and what-if scenarios. The model has different curves, uses Monte Carlo simulation to look at different failures. If we only have \$70M to put towards power assets, can include those projects in the model and see how that impacts the LOS. Will be able to show if \$30M additional funding, how does that change the LOS? Will be able to put in modified curves to see how investments change the picture over time. It is not a simple spreadsheet. Played with the model around 9 years ago. Building on that. Working with Will Williams at B&V. Mike worked with Will briefly on a DWR project. Per Margaret, looking at a high level. Won't always have the money that you need, so want to understand the best use of funds to manage risk. Have been trying to get this done since 2011. Fire, storm events have slowed things down. For a lot of HHWP folks, have started to visually recognize how important power assets are during emergencies. Bypass actually hydro mined didn't dissipate all the head and mined concrete. Not designed to sustain 275 mgd for a long period of time. BAWSCA will see another project for WSIP, HHWP needed to be on line. Risk assessment questions all in progress.
	Risk Register Criticality criteria and definitions	Risk register - what are they doing in Maximo. WW Enterprise spent a lot of effort looking at this. Criterion is based on WWE work, not HHWP work. The page can be customized for each division, so as HHWP develops the criteria, will modify this page. HHWP model is more complicated 1 to 500 to capture a number of different factors. Risk model - Per Scott, it would be valuable to put it back into Maximo to identify the priority of the asset this would show someone that this asset is more important than the one I want to work on.
O&M	Maintenance	O&M Improvement. Preventive Maintenance and PDM programs. Have a PM
improvement	Management Maintenance	program currently that is managed in Maximo. Have scheduled PMs have job plans. PMs are listed on a weekly basis, 16 days in advance for scheduling.
	Management	Have company job plans, sequence job plans based on work to be performed. Job plan gets associated with a PM. Don't like to go too far with
	Maintenance Management	the PMs. Are they completing work within the time needed for PMs? Going generous on PM timelines. Haven't started measuring yet but will do so. Currently track PMs issued and PMs completed, but it doesn't get the timeframe. Working towards answering the question. Maintenance Mgt. Schedule work at two shops. Schedule regulatory PMs first. Next, do previous PMs not completed. Planners provide info. Schedule is dynamic through week until Friday, when it is locked down. Using SIMs package for scheduling. Have used an internal product in VBA for the last 12 years. Not easy to trouble-shoot. If they use a Maximo based product, get support. All shops using the scheduler in March. Visual Scheduler by a Canadian firm that integrates with Maximo. Supervisors can use and it allows them to report availability. Can schedule each individual crew member. The work that Scott and others have put together. Supervisors can see the benefit of using the new tool. It was a long haul to get there. A lot of work. All begins in Maximo. Change management is the hard part. People may decide it won't work for this. Culture change is tough. "Culture eats change for breakfast." Documentation - don't have formal work processes written out. Will be coming with the AM Plans. See cell F67 of worksheet. Workflow folder. SOP on Supervisor Approval of Work Orders. Purpose, scope responsibilities, instructions.



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	Maintenance Management	Asset Performance Data collected and available. Put together a reliability program. Intend to implement. Put this together in 2018 but got sidetracked due to other priorities. Talked about resurrecting program. Currently collect this information for hydroelectric units. This is not yet implemented fully across the board. Scott included this in the data package (reliability program - highlighted in yellow). Are they marking when asset removed from service, brought back on. Scott intends to do this. Have an obligation to NRC to report information. Was recording this same information in Maximo. Need to document failures, track reliability and availability and measure efforts to see if they are changing the repair times, response times. Would collect this data in Maximo, collect downtime data, and can then use this to track reliability. Same staff in hydro and water. They are accustomed to dealing with regulatory requirements.
	Work Management	Have a Priority SOP 1-9, 9 highest priority. Have a communication process that they have developed based on Incident Command. Had a few emergencies, and once they got the hang of the emergency management system, and Scott realized that they could use this for other work. Meet on Tuesdays at mgt level and establish near-term (6 weeks) and long-term (6 years) timeframe. What are the constraints. ROW, Power, Planners, etc. Establish the priorities for the objectives. On Thursdays, have the Ops meeting where information is conveyed to the rank and file. Schedulers develop schedules. See graphic showing Communication and Coordination process. Scott thinks that they are doing a good job here. Per Margaret, this has helped to establish management priorities. Not only just to coordinate, but sends the message down on the priorities. Who decides if this work order needs to go before that work order (see cell X77 in spreadsheet) MAXSOP-1002-Priority Codes Rev 2. SOP on Priority Codes. Defines nine levels of work 9 emergency, operational failure, urgent, regulatory compliance, high criticality asset PM, standard PM, routine work, low priority work, desirable work. How would you say that a particular work order is a 4 or a 5? Will define criticality based on LOS. Not yet defining risk score in Maximo. Once this is available, this will help to show criticality. Currently based on gut of managers. Information being communicated to the workers. Backlog - use work order status to breakup the backlog into buckets for each manager. Manager gets a graphical display of workload. Want to have no more than two weeks of WIP. Want to have four weeks of work in approved status. Want to have 8 weeks of work in the queue. Display of bucket tool FDS.aspx. If you click on the bucket, will show the particular work orders associated with the particular portion of the bucket. Backlog, available queue space, in queue, available workload space, committee, in progress. Right now, scheduling one week ahead, but this tool helps to visualize
	Work Management	Measure journeyman, supervisor and manager. Ask supervisor for crew availability. Measure whether journeyman shows up. Have liberal leave policies, so measure who shows up vs expected to show up. Measure ability to focus on scheduled work. Have a logical process send schedule to manager, get input, lock down logical schedule. The closer that they can get to working on logical schedule, the better. They are about 81% of goal. 60% of work is scheduled. Still have break-ins. Schedule performance and schedule effectiveness. How well am I meeting my PM goal, and how can the schedule be modified. Have identified critical PM and it is not getting done this will be a next step.
Condition Assessment	Business Process for	How are condition assessments performed? At what interval? What tiers of assessment? Don't have an established procedure. This will come from the



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and Remaining Useful Life (RUL)	Condition Assessment Condition criteria and definitions	gap analysis and the tool, this will be coming. Since 2006, have been doing formal assessments of assets. Stepping through the project. Though they may have gone through several of the assets, they may not have done condition assessments. Doing a preliminary report on this. Assets that have been performed have been tiered. Where they are doing the best is on the tunnels. Inspection frequency of 15 years. Have made it into CRT twice since		
	Remaining Useful Life (RUL)	Margaret has been here. Condition assessments to date have been reports, but haven't been fed back into Maximo. With the plans coming on board, will have a defined formal process. Will define what needs to be done and at		
	Policy for updating RUL	what frequency. Some of the smaller work gets back into Maximo, but the larger picture will be part of the AM Plans. Where are the regulations going, where do we need to be? Condition assessments have been done by B&V,		
	Condition Assessment Register	Stantec. Dam CA provides a good snapshot of what will be in the AM Plans. Alameda East for water assets. Irvington for power assets. Assets include the lime plant. Tesla Disinfection Facility part of Regional System. Leach field is part of the compound (roads, water distribution, etc at Cherry, O'Shaunessy, etc). All of these assets included. Condition criteria, asset condition (page 9). Risk tab in the asset registry is included by criterion. Can be customized by each Division. Working on customizing this with the risk tool that is being developed. Currently carrying a COF and LOF. LOF will come from age and lowa curves. Asset evaluation/condition assessment information - can keep this in Maximo and can provide a quantitative score.		
Replacement Planning	Rehabilitation and Replacement Planning Rehabilitation and Replacement Funding	The City has a two-year budget cycle. Plan for a 10-year period. Coordinate with Infrastructure - they have a form that has been include in documentation. Form is used to prioritize has a rating. Is in line with the strategic objectives. Is not as comprehensive as what they are doing with the new risk tool. HH & Infrastructure work together rolls up to the Enterprise. Work with Power, Water Supply & Treatment as well. R/R processes are SFPUC-wide processes. Cheryl - have a process to integrate information collected in field assessments, both outside of the CIP process and inside the CIP process. An example would be - condition assessments on the valves on the face of O'Shaunessy. Prioritized and scheduled work over the next 15 years. Continuing to evaluate assets valves on diversion bypass from O'Shaunessy to Canyon Tunnel. Will continue previous work, but these valves have a higher risk, so how do we re-prioritize. As they learn more about an asset, re-prioritization is done to accommodate new findings. Cheryl - when they find a problem or something that needs to be addressed, if a capital project, have a form. Job request form which is basic information an idea - need a better way to operate this valve or facility. Gross cost estimate is developed (0-50K, 50K - 100K, etc). That form goes to a committee Ops Mgr, Finance, Engineering. What is the problem and do we want to tackle right now? If the JIFs yes, then have a different form to develop more detailed scope (JIF form). Presented to the GIF committee for consideration. This process was set up by Cheryl to make sure that crews are accountable and mgt accountable for spending their money most effectively. Is this information logged in Maximo? Per Margaret, it is more of a service request. If DIFF committee decides it needs to be done, looks at who can do it. Regardless of level of involvement, will generate JIF. Example: Looked at the need to replace the transformer because the gas levels were dangerously high. Put together a project to replace t		



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		going on. WS&T would not override priorities by HHWP. If summertime, have to have at least 240 mgd going to the Bay Area. Sets the constraints for planning. Right now, in shutdown mode and deliveries are local. When they come back on, will be replenishing local storage.		
	Rehabilitation and Replacement Expenditure Policy	Expenditure policies for R/R. Cheryl - use City/County of SF asset policies. Asset, \$ amounts classified. R/R funds can only be used for existing asset or for new asset to replace existing asset. Per Cheryl, policies are not as prescriptive as she would like. Mike - is there anything that has \$100M in an account, is there any policy doc that says this can't be used for a new asset related to growth. Have money set aside for R/R. In 2018, after floods, identified need for new projects to address. Had to go back to the Commission and show what was needed, where the money is coming from. Capital Plans and R/R budgets are defined when they are submitted to the Commission to approve the changes. Controls at those levels are strict water appropriation, power appropriation. Can't use water appropriation to fix a generator, for example. Budget - bond funded. Get about \$3.5M per year for R&R. Cheryl reviews to determine money being used appropriately. She follows general accounting principles to determine whether bond funding can be used or R&R budget needs to be used. An independent audit is required for the capital plan, based on bond requirements. Auditor looks at whether bonds are being used for appropriate purpose. Look at things by a group of assets. For example, look at penstock, Canyon Power Tunnel, Kirkwood PH. When looking at Kirkwood PH, how much can they get thru the PH.		
Service Level goals	Service Level definitions for asset management	Service Level Goals. When they look at different assets - Mtn Tunnel - what is the capacity, what is the constraint, etc. If I can deliver 300 mgd, okay, since SJPLs constrained to 300 mgd. Go thru each asset, review mode of failure. If failure of Canyon Tunnel before Mtn Tunnel, this is not as bad because could put water down the river and bring it back into Cherry or Eleanor. If a failure at Canyon Tunnel, can probably survive 8 months. If Mtn Tunnel or Foothill Tunnel, could only survive for 3 months. Have had a process for various projects. Used a value engineering approach to make best use of funds.		
Connection to other plans ie: Strategic Plan, CIP, etc	Capital Improvement Plan	Use of other Docs. Per Margaret, LOS's run the capital program. The City will work more on a formalization of the AM approach. Scott is meeting with others to discuss AM programs and where they are going. Looking to ISO 50001 for compliance. Each Division at different levels of maturity with regards to where they are. Risk model will be fed by the asset registry. The Strategic AM plan will look at all the elements together. Specific objectives in the Fiscal 2020 Strategic Plan		
Supply Chain	Business Process and Policy for Supply Chain	Supply Chain Business Process and Policy for Supply Chain All of their purchases go thru Maximo. Start with a work order. Requisition feeds a work order. Some businesses don't tie back to an asset (cleaning supplies, toilet paper). Once PO is cut, it transfers to an Oracle system at SFPUC. Not everyone in the City use Maximo. Then it goes thru an approval process in Finance in the City. They make sure money is encumbered out of right pot of money, etc. Inventory purchases. Thru Maximo. Issue purchase to the work order. When people come to get items in the warehouse, they have to have a work order. There is a monthly consumable work order for supplies. Set up the work orders at the beginning of the FY. Can track warehouse consumables. Monthly consumable work order (based on annual work order). Can track each section is using in consumables from the warehouse. When they receive inventory items. Bin locations, item numbers. Have a storeroom association. Very typical warehouse layout. Before they are placed on the shelf they are received in Maximo. Mostly use desktops with Maximo. Starting to use mobile Maximo. No scanning or barcoding capability yet. Determined it wasn't cost effective. Others Use Data Supply, but also track		



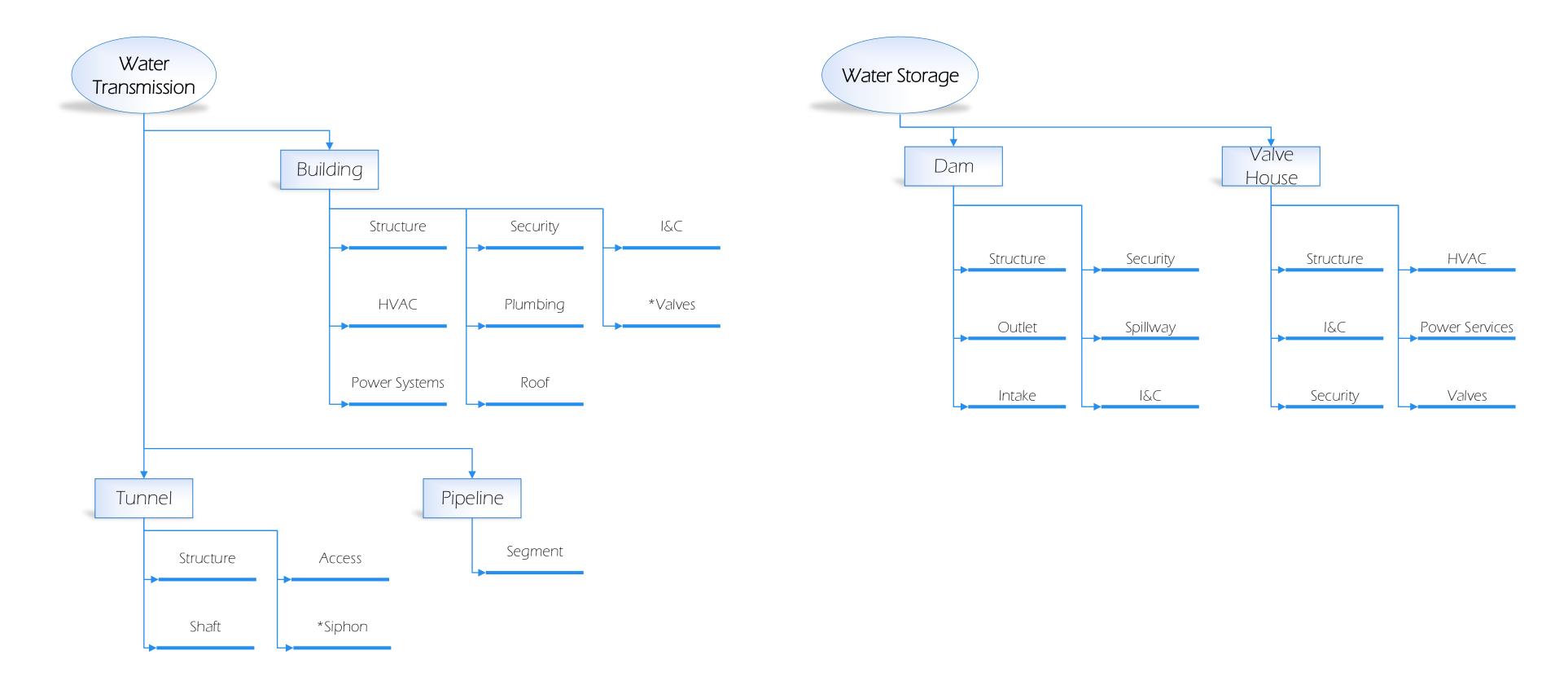
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	things with manual (paper copy) receipts. Not seeing the value added to implement it here. Seems like it would slow things down. If someone has issued parts for a work order and they need to be returned. Happens rarely but can return items in Maximo.
Item Master Export Warehouse Managemen	Most of the warehouse is consumable inventory (highest dollar value). Track spares in Maximo. Item Master contains both active and inactive items. If you were to look at all of SFPUC there would be 10s of 1000s of items. Consumables are the cornerstone of their inventory. But do include items like parts for vehicles. Also maintain parts for cottages here. Parts would be one of the 2300 active items in the inventory. Alan doesn't think they are in Item Master. Item Master - assigns serial number for e ach type of asset. Like having a bill of materials. Critical spares - a couple ways they get critical spares. Can have a project where they are purchased in advance. Can track those in Maximo. They have a process for issuing critical spares through work orders. How are critical spares identified? Previously, gut feeling. Now, more deliberate based on experience. Have a metric for those. Do vetting to determine what a critical spare is. Not the same as leftover parts.
Warehouse Managemen Warehouse Managemen	understand the cost to see the benefit of reserving item. Do you look at parts
Warehouse Managemen	Physical and cycle counts. Required annual inventory. Every other year have an outside audit. Count all 2300 items annually. Usually pretty accurate. Cycle counting weekly. Have a reporting on inventory adjustments on a monthly basis. Automated report that is generated from Maximo. Generated monthly, and then they can track it down. Outside audit - print out inventory and manually count each item. Then provide a reconciliation. If have Maximo at the desktop, print out count sheets. Do a reconciliation. When the auditors come, they have a number of items to expect. Internal inventories are blind count. One main warehouse. Annex next to warehouse. Sometimes critical spares are stored at the facility location. Per Cheryl, have had problems with critical spares. Used to store in the old powerhouse. But due to asbestos issues, need to suit up to go in the facility. Currently don't have a good facility and need a new one. Don't have enough space. Had a project in the budget, but it didn't go through. Do not have enough square footage to store all the things they would like to store. But do have a good handle on what they have, where it is. Replacement tools. Most recent audit on tools for tech shop. Look at what they have and then inventory. Doing the same for critical spares. An effort to manage rolling stock in the future. Planning to check out through the warehouse. Equipment that is used by multiple crafts. What went out. What shape it is in when returned. Sometimes share equipment between different groups. Will be looking at making sure everyone has the right equipment, it is being stored where needed, etc. to make work more efficient. Materials Management Staffing. A large part of work dedicated to purchasing IT services for software. IT purchasing < 10K. About 2000 purchases a year. Everyone is cross-trained, so things don't stop if someone absent. Fuel - a person is dedicated to fuel (50% of job responsibility). Work with EJ Ward and Maximo on fuel management. Pretty sophisticated problems. Communicatens betw

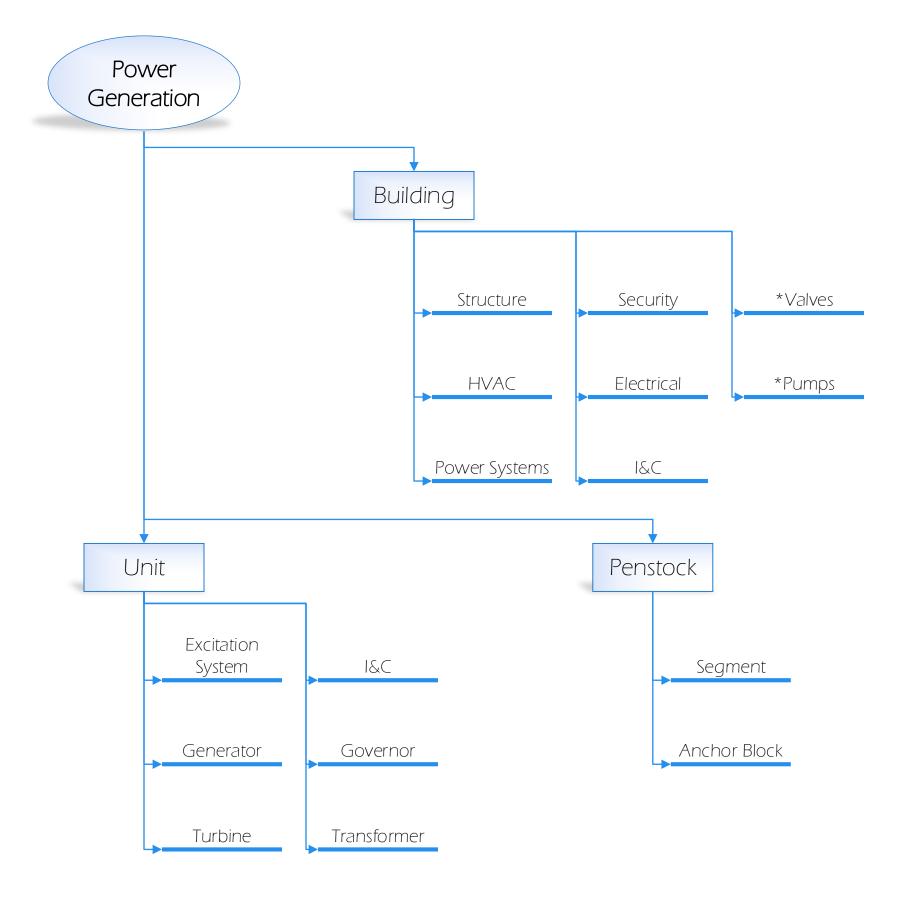


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Criteria	SubCriteria	HHWP Meeting Notes		
		curve in terms of retirements. Helped them to identify things that need to be put into place going forward. Need to capture that institutional knowledge. If we have follow-up questions, reach out to Cheryl or Margaret. They will provide the entire package electronically. They will send to Michelle to send to us.		
Staff Plan	Staff matrix and job description	Just hired a staffing a maintenance mgr. Will be hiring a clearance mgr. Will take the lead in system shutdowns. This will free up others to focus more on maintenance activities. AM/Asset Integrity vs. Maintenance Implementation side vs analysis side. A couple of years ago, restructured the group. Started out with schedulers/planners. Have branched out. Asset services, scheduling, AM - maintaining data, creating PMs. This will be left to the Asset Group, not planners. There is a chart that Scott has identified that shows what each section is responsible for. This is what they are working towards. Clearance planner - 5602 - Promotion from planner. Org and coordinate system outages and maintenance outages. Right now, out for 30 days and doing a lot of work. Scott planned this outage. In the future, the Clearance Planner would plan this outage. Would facilitate the coordination/planning. Would gather generator availability data. Any time a generator is down, there is a clearance issued. They would handle this. They will coordinate with WS&T at the two-month planning meetings. Meeting with WS&T on Friday. Is HHW&P completely autonomous? Regional coordination - this is a list of jobs we have agreed to. Have a long-term view of work to identify constraints, can put jobs together, etc. There is a bit of overlap here. Sometimes WS&T provides staff for some projects. Processes are completely different by Division. Scott is in Benicia but stays up here during the week. When they set up their group focused on planning and scheduling. At WS&T, focus on assets. HHWP and WS&T worked individually on their deliverables. Scott will be leaving. Per Cheryl, he has been a great partner working with the accounting side of things. Looking for person to replace Scott. Know how they want to look at the different groups. Looking for AM manager. Reciprocity with CalPERS. Not in CalPERS. The one thing that Margaret has seen is that it was a long journey bringing the workers along. Now they work with the tools and make suggestio		

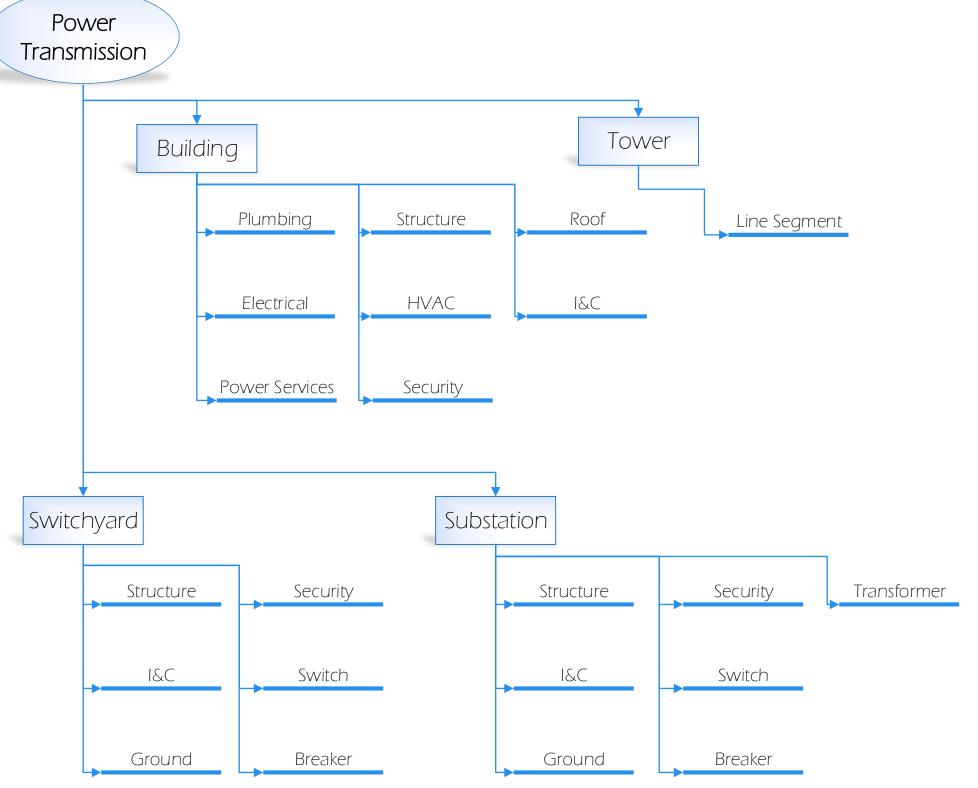
APPENDIX F HHWP Asset Hierarchy Index

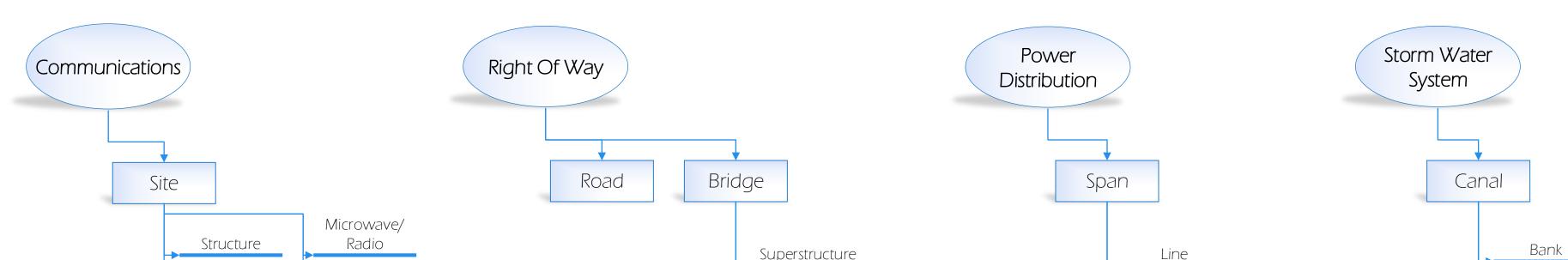
Hetch Hetchy Water and Power: Major Facility and Assembly Types by System



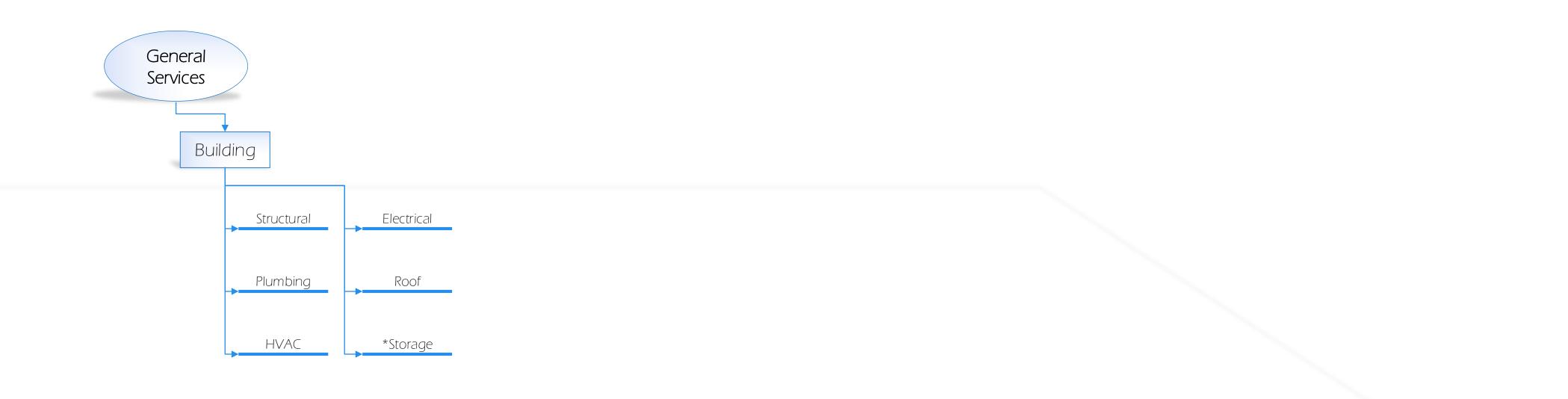












APPENDIX G Asset Classification Attribute Domain

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6818 04_GREASE Grease ALN 6822 04 INFILTRATION Infiltration ALN	MAJMIN MAJMIN	
6822_04_INFILTRATION Infiltration ALN 6806_04_LINEDEVIATIONS Line Deviations ALN	MAJMIN	
6816 4_05TRUCTION Obstruction Alv	MAJMIN	
Geo 04_OPENIOINTS Open Joints ALN	MAJMIN	
6808/04_REVERSEGRADE Reverse Grade ALN	MAJMIN	
6810 04_ROOTS Roots ALN	MAJMIN	
6802 04_SAGINPIPE Sag In Pipe ALN	MAJMIN	
6812 04_SILT Silt ALN	MAJMIN	
6826 04_SURVEYABANDONED Survey Abandonned ALN	MAJMIN	
6228 04_UNCLASSIFIED Unclassified ALN 6100 A A A AL	MAJMIN	
6100 A A A AIN 5688, EXPAN MOD Analog Expansion Module ALN		
3009 A PRINT EXP D Allarge Zupatisolity module Allarge Capations and Allarge Zupatisolity and Allarge Capations and Allarge		
6199 A/C BELT NO. ALN		
5909 ABRASTN PROT Abrastion Protection ALN		
5910 AC AMPS AC Amps ALN		
5911 AC INPUT AC Input AIN		
8934 AC VOLTAGE INPUTS THE NUMBER OF A COUTAGE INPUTS ALN 5932 ACC CAT ADDITION CONTRACT AND A		
5912, ACC GAT MATL Access Gate Material ALN 5913, ACC GATE SIZ Access Gate Size (H,W,L) ALN		
S913 ACC GNTE SV2 ACCess Gate Size (myL) ALN 5914 ACC GATE TVP Access Gate Size (myL) ALN	ACCESS GATE TYPE	
SJA ACCEVITION ACCESS GAR Hype ADV SJS ACCEPT DATE ACCESS GAR Hype ADV		
5589 ACCESS Access All		
5702 ACCESSORIES Accessories ALN		
6142 ACCOUNT NO. Account Number ALN		
S916 ACCURACY ACCURACY ALN		
5917 ACT CTRL TYP Actuator Control Type ALM	ACT CONTROL TYPE	
5591 ACT TYPE Actuator Type ALV 5991 ACT LTOP Actuator (VII) AlV		
5918 ACTUATOR Actuator (V/N) ALN 5919 ACTUATOR TYP Actuator Type ALN	ACTUATOR TYPE	
S131 ACLIVATION TYP Actuator Type ALL 8804 ADDICCOMMENTS Additional Comments ALM	ACTUATOR TIPE	
about ADUCLONWINENTS ADUILUDIA COMMENTS ADUI		
5779 ADDRESS Strett address and name ALM		
9082 ADDRESS NO. Address Number ALN	STRNAMES	
10442 ADDRESS NOTES ALN		
10444 ADDRESS NUM Address Number ALN		
8970 ADDRESS NUMBER NUMERIC		
520 ADDRESS1 Address1 ALN		
5921 ADDRESS2 Address2 ALN 5922 AERATION TYP Aeration Type ALN	AERATION TYPE	
5222 AEXA IUN ITY APPENDIN ARTION TYPE ARTION TYPE ALL 6086 AFILT AFILT ALL	ACRATION TIPE	
0006 AFLL AFLL AFLL AFLL AFLL ALV 9992 AGGREGATE MATERIAL Aggregate Material Size ALV		
5922 AGO RUY TYPE Access Gate Operator Drive Typ ALV	AGO DRIVE TYPE	
5669 AI CAT # Analog Input Catalog No. ALN		
7184 AIC AMP INRUSH CURRENT ALN		

5924 AIR CAPACITY	Air Capacity	ALN			
6184 AIR FILTER #	AIR FILTER NO.	ALN			
5603 AIR FLOW	Free Air Delivery	ALN	CFM		
5925 AIR PMT REQD	Air Permit Required	ALN			
10256 AIR TEMPERATURE	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
8582 AIR VALVE	10"AVV,12"AVV	ALN			
5926 ALARM TYPE	Alarm Type	ALN			
6087 ALLOY	ALLOY	ALN			
5927 ALM EVT MGMT 6197 ALT BELT	Alarms And Event Management	ALN			
9782 ALWAYS PROGRAM TO STANDARD TIME	ALT BELT NO. ALWAYS PROGRAM TO STANDARD TIME	ALN			
6238 AMB TEMP	ALWAYS PROGRAM TO STANDARD TIME	ALN	с		
7182 AMP	AND LENT	ALN	C C		
7182 AMP FRAME	AF	ALN			
7186 AMP TRIP	AT	ALN			
6088 AMPS	AMPS	ALN	AMPS		
5928 AMPS 1-PHASE	Amps Single Phase	ALN			
5929 AMPS 3-PHASE	Amps Three Phase	ALN			
5930 AMT OF FEEDS	Amount of Feeds	ALN			
5931 AMT OF MEDIA	Amount of Media	ALN			
5932 AN INP CAT N	Analog Input Catalog Number	ALN			
5933 AN OUT CAT N	Analog Output Catalog Number	ALN			
8904 ANALOG		ALN		YES/NO	
8928 ANALOG INPUTS	THE NUMBER OF ANALOG INPUTS	ALN			
8930 ANALOG OUTPUTS	THE NUMBER OF ANALOG OUTPUTS	ALN			
5934 ANGLOF VIEW	Angle Of View	ALN			
5935 ANSI RATING 5671 AO CAT #	ANSI Rating Analog Output Catalog No.	ALN			
5787 APN	Analog Output Catalog No. Assessors Parcel Number	ALN			
7602 APPCOMPONENT	Application Component	ALN			
5574 APPLICATION	Application	ALN			
5936 APPROVALS	Approvals	ALN			
7086 APPROXIMATE WEIGHT		ALN			
7366 ARC FLASH HAZ	Arc Flash Hazard/Risk Category	ALN			
9778 ARC FLASH HAZARD/RISK CATEGORY	Arc Flash Hazard/Risk Category	ALN			
7822 ARC FLASH LABEL REQUIRED	YES or NO	ALN			
5837 AREA	Building Square Footage	ALN			
9990 AREA OF FACILITY	Area of Facility	NUMERIC			
10030 AREA OF IMPACT	The proximity of the detcetion relative to the line.	ALN	FT		
5937 AREA SERVED	Area Served	ALN			
7248 ARM	ARM LENGTH, NONE, OTHER	ALN			
5808 ARM LENGTH	Pole arm length	ALN			
5789 ARM OWNER 5938 ARMATUR CONN	Owner of Street Light Arm	ALN			
8726 ASSET CATEGOGY	Armature Connection	ALN			
8154 ASSET CATEGORY	Asset Category (Keyword)	ALN			
8184 ASSETWORK #	ASSET WORKS NUMBER (EQUIP ID)	ALN			
8728 ASSIGENED REPAIR LOCATION		ALN			
5939 ASSIGN TO	Assign To	ALN			
6202 ASSIGNED	ASSIGNED TO	ALN			
8146 ASSIGNED REPAIR LOCATION	Assigned (Maintenance) Repair Location	ALN			
9350 ASSIGNED TO	Group or person the radio is assigned to.	ALN			
5448 ASSIGNTO	PERSON ASSIGN TO	ALN			
5453 ASTO SEAT	ASTO SEAT	ALN			
5781 ATTACHMENT	Items attached to pole	ALN			
5940 AUDIO	Audio	ALN			
5627 AUX CONTACTS					
	Auxilary Contacts	ALN			
5595 AUX SWI RATE	Auxiliary Switch Rating	ALN			
5595 AUX SWI RATE 5941 AUX TRAFFIC	Auxiliary Switch Rating Auxiliary Traffic (Y/N)	ALN ALN		YES/NO	
5595 AUX SWI RATE 5941 AUX TRAFFIC 6188 AUX. ENG. MF	Auxiliary Switch Rating Auxillary Traffic (Y/N) AUX. ENG. MFG.	ALN ALN ALN		YES/NO	
S595 AUX SWI RATE 5941 AUX TRAFFIC 6188 AUX ENG. MF 9425 AUX: ENGINE COOLANT CAPACITY	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. ENG. MFG. Aux. Engine Coolant Capacity	ALN ALN ALN NUMERIC	GAL	YES/NO	
5595 AUX SWI RATE 5941 AUX TRAFFIC 6188 AUX: ENG. MF 9425 AUX: ENGINE COOLANT CAPACITY 9424 AUX: ENGINE COOLANT TYPE	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. ENG. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type	ALN ALN ALN NUMERIC ALN	GAL	YES/NO	
5595 AUX SWI RATE 5941 AUX TRAFFIC 6188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MAKE	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. ENG. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type AUX. ENGINE MAKE	ALN ALN NUMERIC ALN ALN	GAL	YES/NO	
5595 AUX SWI RATE 5941 AUX TRAFFIC 6188 AUX: ENG. MF 9425 AUX: ENGINE COOLANT CAPACITY 9424 AUX: ENGINE COOLANT TYPE	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. ENG. MFG. Aux. Engine Coolant Type AUX. Engine Coolant Type AUX. ENGINE MAKE AUX. ENGINE MAKE	ALN ALN ALN NUMERIC ALN ALN ALN		YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC 6188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MAKE 7214 AUX. ENGINE MAKE	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. ENG. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type AUX. ENGINE MAKE	ALN ALN NUMERIC ALN ALN		YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC 6188 AUX: ENG. MF 9425 AUX: ENGINE COOLANT CAPACITY 9424 AUX: ENGINE COOLANT TYPE 7213 AUX: ENGINE MARE 7214 AUX: ENGINE MARE 9423 AUX: ENGINE OIL CAPACITY	Auxiliary Switch Rating Auxiliary Traffic (r/M) AUX. ENG. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type AUX. Engine MAKE AUX. ENGINE MODEL Aux. Engine OII Capacity	ALN ALN ALN NUMERIC ALN ALN ALN NUMERIC		YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC 6388 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MODEL 9423 AUX. ENGINE MODEL 9423 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL TYPE	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. Eng. MrG. Aux. Engine Coolant Type AUX. Engine MAKE AUX. Engine MAKE AUX. Engine Oil Capacity Aux. Engine Oil Type	ALN ALN ALN NUMERIC ALN ALN ALN NUMERIC ALN		YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC 6388 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MOREL 9423 AUX. ENGINE OIL CAPACITY 9424 AUX. ENGINE OIL TYPE 9424 AUX. ENGINE SERAL # 7215 AUX. ENGINE SERAL # 7215 AUX. ENGINE SERAL #	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) AUX. Eng. MFG. Aux. Engine Coolant Type AUX. Engine MAKE AUX. ENGINE MAKE AUX. ENGINE MAKE AUX. Engine Oil Capacity Aux. Engine Oil Type Aux. Engine Serial Number AUX. ENGINE SIZE AUX. ENGINE SIZE AUX. Water Pump Manufacture	ALN ALN ALN ALN ALN ALN ALN NUMERIC ALN ALN		YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC G188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MAKE 9423 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL TYPE 9421 AUX. ENGINE SIZE 9428 AUX. WATER PUMP MFG. 9429 AUX. WATER PUMP MFG. 9429 AUX. WATER PUMP MOEL #	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AUX. ENG. MFG. Aux. Engine Coolant Type AUX. Engine MaKE AUX. ENGINE MAKE AUX. ENGINE MAKE AUX. ENGINE MAKE AuX. Engine Oil Type Aux. Engine Serial Number AUX. Engine Serial Number AUX. Engine Serial Number AUX. Water Pump Manufacture Aux. Water Pump Manufacture Aux. Water Pump Model Number	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN	QT	YES/NO	
5595 AUX SWI RATE 5941 AUX TRAFFIC 6188 AUX: ENGINE COOLANT CAPACITY 9424 AUX: ENGINE COOLANT TYPE 7213 AUX: ENGINE MAKE 7213 AUX: ENGINE MAKE 7214 AUX: ENGINE MAKE 7214 AUX: ENGINE MODEL 9423 AUX: ENGINE OIL CAPACITY 9424 AUX: ENGINE SERAL # 7215 AUX: WATER PUMP MGE.	Auxiliary Switch Rating Auxiliary Taffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type AUX. Engine Coolant Type AuX. Engine Oil Capacity Aux. Engine Oil Type Aux. Engine Oil Type Aux. Engine Oil Type Aux. Engine Oil Type AuX. Engine Seis Number AuX. ENGINE SiZE Aux. Water Pump Manufacture Aux. Water Pump Oil Capacity	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC G188 AUX. ENGINE GOOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MARE 7224 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL TYPE 9423 AUX. ENGINE STRAL # 7215 AUX. ENGINE STRAL # 9424 AUX. ENGINE STRAL # 9425 AUX. WATER PUMP MFG. 9428 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP MODEL # 9433 AUX. WATER PUMP MIC CAPACITY	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) AuX. Eng. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type AuX. Engine MARE AUX. ENGINE MARE AUX. ENGINE MARE AuX. Engine Oil Capacity Aux. Engine Serial Number AuX. Engine Serial Number AuX. Engine Serial Number AuX. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Model Sumber	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC G188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE SIZE 9423 AUX. AUX. ENGINE SIZE 9428 AUX. WATER PUMP MOEL # 9428 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP MOLI CAPACITY 9433 AUX. WATER PUMP MOLI CAPACITY 9430 AUX. WATER PUMP SIL CAPACITY	Auxiliary Switch Rating Auxiliary Taffic (Y/N) AuX. Eng. MFG. Aux. Engine Coolant Type AuX. Engine Coolant Type AuX. Engine MAKE AUX. ENGINE MAKE AUX. ENGINE MAKE AuX. Engine Oil Capacity AuX. Engine Serial Number AuX. Engine Serial Number AuX. Water Pump Model Number AuX. Water Pump Model Number AuX. Water Pump Oil Capacity AuX. Water Pump Oil Capacity AuX. Water Pump Oil Type AuX. Water Pump Oil Type	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT	YES/NO	
S595 AUX SWI RATE S941 AUX TRAFFIC S188 AUX. ENGINE GOOLANT CAPACITY 9425 AUX. ENGINE COOLANT TAPE 7213 AUX. ENGINE COOLANT TAPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE SIZAL # 7215 AUX. ENGINE SIZAL # 7215 AUX. ENGINE SIZAL # 7212 AUX. ENGINE SIZAL # 9422 AUX. ENGINE SIZAL # 9423 AUX. WATER PUMP MFG. 9423 AUX. WATER PUMP MOEL # 9423 AUX. WATER PUMP OLI CAPACITY 9430 AUX. WATER PUMP OLI TYPE 9430 AUX. WATER PUMP SIZ. # 9430 AUX. WATER PUMP SIZ. # 9430 AUX. WATER PUMP SIZ. #	Auxiliary Switch Rating Auxiliary Taffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Capacity Aux. Engine Coolant Type AUX. ENGINE MAKE AUX. ENGINE MODEL Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number AUX. ENGINE SiZE Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Oil Type Aux. Water Pump Oil Type Aux. Water Pump Oil Spacity Aux. Water Pump Oil Type Aux. Water Pump Oil Type Aux. Water Pump Serial Number Avx. Water Pump Serial Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC G188 AUX. ENGINE COOLANT CAPACITY 9425 AUX. ENGINE COOLANT TAPE 7213 AUX. ENGINE COOLANT TAPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE SIZE 9423 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MAFG. 9425 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP MODEL # 9433 AUX. WATER PUMP SIZE 9434 AVS 9434 AVS 9435 AUX. WATER PUMP SIZE # 9434 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9436 AUK. WATER PUMP SIZE #	Auxiliary Switch Rating Auxiliary Traffic (Y/N) AuX. Eng. MFG. AuX. Engine Coolant Type AuX. Engine Coolant Type AuX. Engine Coolant Type AuX. Engine Oli Capacity AuX. Engine Oli Type AuX. Engine Serial Number AuX. Engine Serial Number AuX. Engine Serial Number AuX. Water Pump Model Number AuX. Water Pump Model Number AuX. Water Pump Oli Capacity AuX. Water Pump Oli Capacity AuX. Water Pump Serial Number AuX. Water Pump Serial Number AuX. Water Pump Serial Number AvB	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE SIZE 9423 AUX. AUX. ENGINE SIZE 9428 AUX. WATER PUMP MOEL # 9434 AUX. WATER PUMP MOEL # 9434 AUX. WATER PUMP SICH TYPE 9434 AUX. WATER PUMP SICH TYPE 9430 AUX. WATER PUMP SICH # 9562 AWG 9563 AWAG RATING	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Oli Capacity Aux. Water Pump Oli Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number AvB	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC G88 AUX ENGINE GOOLANT CAPACITY 9425 AUX ENGINE COOLANT TYPE 7213 AUX ENGINE COOLANT TYPE 7213 AUX ENGINE COOLANT TYPE 7214 AUX ENGINE MODEL 9422 AUX ENGINE OIL CAPACITY 9423 AUX ENGINE OIL CAPACITY 9424 AUX ENGINE OIL TYPE 9423 AUX ENGINE SIL # 7215 AUX ENGINE SIL # 7215 AUX ENGINE SIZE 9428 AUX WATER PUMP MFG. 9423 AUX WATER PUMP MODEL # 9423 AUX WATER PUMP MODEL # 9423 AUX WATER PUMP OIL CAPACITY 9431 AUX WATER PUMP OIL CAPACITY 9432 AUX WATER PUMP OIL TYPE 9433 AUX WATER PUMP SER. # 9524 ZWG 9543 AWMA RATING 9666 BW TAMK CAPACITY	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Eng. MrG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine MAKE AUX. EnGINE MAKE AUX. EnGINE MODEL Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Engine Stral Aux. Mater Pump Manufacture Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number AvB Wirke Stze AWWAR Rating Biack Water Tank Capacity	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE SIZE 9423 AUX. AUX. ENGINE SIZE 9428 AUX. WATER PUMP MOEL # 9434 AUX. WATER PUMP MOEL # 9434 AUX. WATER PUMP SICH TYPE 9434 AUX. WATER PUMP SICH TYPE 9430 AUX. WATER PUMP SICH # 9562 AWG 9563 AWAG RATING	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Oli Capacity Aux. Water Pump Oli Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number AvB	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S188 AUX. ENGINE COOLANT CAPACITY 9425 AUX. ENGINE COOLANT TAPE 7213 AUX. ENGINE COOLANT TAPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OL TAPE 9422 AUX. ENGINE OL TAPE 9422 AUX. ENGINE OL TAPE 9422 AUX. ENGINE STRIL # 7215 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MAGE. 9425 AUX. WATER PUMP MODEL # 9424 AUX. WATER PUMP MODEL # 9425 AUX. WATER PUMP STRIL # 9426 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP STRIL # 9429 AUX. WATER PUMP STRIE 9429 AUX. WATER PUMP STRIE 9431 AUX. WATER PUMP STRIE 9432 AUX. WATER PUMP STRIE 9434 AUX. WATER PUMP STRIE 9435 AUX. WATER PUMP STRIE 9434 BUX. WATER PUMP STRIE 9435 AUX. WATER PUMP STRIE 9436 BUX. WATER PUMP STRIE 9437 AUX. WATER PUMP STRIE 9438 AUX. WATER PUMP STRIE 9439 AUX. WATER PUMP STRIE 9430 AUX. WATER PUMP STRIE 9430 AUX. WATER PUMP STRIE 9430 AUX. WATER PUMP	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Engine Goolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type AuX. ENGINE MAKE AUX. ENGINE MAKE AuX. ENGINE MODEL Aux. Engine Serial Number AuX. Engine Serial Number AuX. Starp Pump Model Number AuX. Water Pump Model Number AuX. Water Pump Model Number AuX. Water Pump Oil Capacity AuX. Water Pump Serial Number AuX. Water Pump Serial Number AvB Wirk SizE AWWA Rating Black Water Tank Capacity	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9422 AUX. ENGINE OLI CAPACITY 9423 AUX. AUX. ENGINE SIZE 9424 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP MODEL # 9433 AUX. WATER PUMP MODEL # 9434 AUX. WATER PUMP MOL LIPE 9430 AUX. WATER PUMP SIL APACITY 9434 AUX ANTER PUMP SIL 9435 AUX. WATER PUMP SIL 9436 AUX. WATER PUMP SIL 9437 AUX. AUX CAPACITY 9438 AWA ATING	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Manufacture Aux. Water Pump Oli Capacity Aux. Water Pump Oli Capacity Aux. Water Pump Oli Capacity Aux. Water Pump Serial Number Aux. Water Tank Capacity Biack Water Tank Capacity Branch Breaker Type BacAQMD Source Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S88 AUX. ENGINE GOLANT CAPACITY 9424 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9423 AUX. ENGINE OIL CAPACITY 9424 AUX. ENGINE OIL TYPE 9423 AUX. ENGINE OIL TYPE 9424 AUX. ENGINE SIZE CO 9425 AUX. ENGINE SIZE CO 9424 AUX. ENGINE SIZE CO 9425 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP SIZE CAPACITY 9433 AUX. WATER PUMP SIZE # 9434 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9436 AUX. WATER PUMP SIZE # 9436 AUX. WATER PUMP SIZE # 9436 AUX. WATER PUMP SIZE # 9437 AUX. WATER PUMP SIZE # 9438 AUX. WATER PUMP SIZE # 9438 AUX. WATER PUMP SIZE # 9439 AUX. WATER PUMP SIZE # 9430 AUX. WATER PUMP SIZE # 9562 AVB 9434 AUX. BATER PUMP SIZE # 9435 AUX. SAGENCH SIZE # 944 AUX. SAGENCH SIZE # 94552 AUS	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Eng. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oil Type Aux. Engine Oil Type Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Oil Capacity Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Mater Pump Serial Number Aux. Mater Pump Serial Number Aux. Mater Pump Serial Number Aux Bater Pump Serial Number Aux Dater Pump Seriel Number Aux Dater Pump Seriel Number Aux Dater Pump Seriel Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC G188 AUX. ENGINE GOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MOREL 9423 AUX. ENGINE MOREL 9423 AUX. ENGINE OLI TYPE 9423 AUX. ENGINE OLI TYPE 9424 AUX. ENGINE SUL CAPACITY 9425 AUX. ENGINE SUL TYPE 9424 AUX. ENGINE SUL TYPE 9425 AUX. ENGINE SUL TYPE 9428 AUX. WATER PUMP MFG. 9428 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP GLAPACITY 9433 AUX. WATER PUMP SER. # 9434 AUX. WATER PUMP SER. # 9435 AUX. WATER PUMP SER. # 9434 AUX. WATER PUMP SER. # 9435 AUX. WATER PUMP SER. # 9434 AUX. WATER PUMP SER. # 9435 AUX. WATER PUMP SER. # 9436 AUX. WATER PUMP SER. # 9436 AUX. WATER PUMP SER. # 9437 AUX. BARGINE SERCOM 9438 AUX. BARGINE SERCOM SERVER 9438 AUX. WATER PUMP SER. # 9439 AUX. WATER PUMP SER. # 9434 AUX. BARGINE SERVER 9435 AUX. BARGINE SERVER 9436 AU	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Eng. MFG. Aux. Engine Coolant Capacity Aux. Engine Coolant Capacity Aux. Engine MAKE AUX. ENGINE MAKE Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Sengine Serial Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Oil Capacity Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Aux. Mater Pump Serial Number Aux. Mater Pump Serial Number Aux. Mater Pump Serial Number Aux. Serial	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TAPACITY 9425 AUX, ENGINE COOLANT TAPE 7213 AUX, ENGINE MARE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE NOT TAPE 9422 AUX, ENGINE STRIL # 7215 AUX, ENGINE STRIL # 9422 AUX, ENGINE STRIL # 9423 AUX, WATER PUMP MFG. 9424 AUX, WATER PUMP MFG. 9425 AUX, WATER PUMP MODEL # 9426 AUX, WATER PUMP MOL CAPACITY 9431 AUX, WATER PUMP MOL CAPACITY 9432 AUX, WATER PUMP SER, # 9433 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 SUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9436 AUX, WATER PUMP SER, # 9437 AUX, WATER PUMP SER, # 9438 AUX, WATER PUMP SER, # 9439 AUX, WATER PUMP SER, # 9432 AUX, SATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9432 AUX, SATER PUMP SER, # 9545 AUXAR 9456 AUXAR <td>Auxiliary Switch Rating Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Aux. Engine Coolant Tapacity Aux. Engine Coolant Tapacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Engine Oil Capacity Aux. Water Pump Model Number Aux. Water Pump Oil Tapacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Rump Serial Number Biack Water Tank Capacity Aux. Mater Rump Serial Number Backflow Preventer Model Number Backflow Breventer Model Number Watershed Basin Location Battery Charger</td> <td>ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>QT GAL</td> <td>YES/NO</td> <td></td>	Auxiliary Switch Rating Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Aux. Engine Coolant Tapacity Aux. Engine Coolant Tapacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Engine Oil Capacity Aux. Water Pump Model Number Aux. Water Pump Oil Tapacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Rump Serial Number Biack Water Tank Capacity Aux. Mater Rump Serial Number Backflow Preventer Model Number Backflow Breventer Model Number Watershed Basin Location Battery Charger	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7214 AUX. ENGINE MAKE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OL CAPACITY 9422 AUX. ENGINE OL CAPACITY 9422 AUX. ENGINE OL CAPACITY 9422 AUX. ENGINE OL TYPE 9423 AUX. AUX. ENGINE SIZE 9428 AUX. WATER PUMP MOGEL # 9428 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP SIZE 9432 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP SIZE 9432 AUX. WATER PUMP SIZE 9432 AUX. WATER PUMP SIZE 9433 AUX. WATER PUMP SIZE 9434 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9434 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9434 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9435 AUX. WATER PUMP SIZE # 9436 AUX. WATER PUMP SIZE # 9437 AUX. WATER PUMP SIZE # 9438 AUX. WATER	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Auxiliary Tarffic (Y/N) Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Oli Type Aux. Engine Serial Number Aux. Water Pump Mouflacture Aux. Water Pump Mouflacture Aux. Water Pump Oli Capacity Aux. Water Pump Oli Capacity Aux. Water Pump Oli Type Aux. Water Pump Oli Type Back Water Tank Capacity Aux. Water Pump Serial Number Aux Water Tank Capacity Back Moreaker Type Back Moreaker Type Back Moreaker Type Back Moreaker Serial Number Back Moreaker Serial Numbe	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC G188 AUX. ENGINE GOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MODEL 9423 AUX. ENGINE MODEL 9423 AUX. ENGINE DIL CAPACITY 9424 AUX. ENGINE DIL CAPACITY 9423 AUX. ENGINE DIL TYPE 9423 AUX. ENGINE DIL TYPE 9424 AUX. ENGINE SILL# 7215 AUX. ENGINE SILL# 7215 AUX. ENGINE SILL# 9423 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP MODEL # 9424 AUX. WATER PUMP SIL CAPACITY 9433 AUX. WATER PUMP SIL CAPACITY 9434 AUX. WATER PUMP SIL CAPACITY 9435 AUX. WATER PUMP SIL CAPACITY 9436 AUX. WATER PUMP SIL CAPACITY 9437 AUX. WATER PUMP SIL CAPACITY 9438 AUX. WATER PUMP SIL CAPACITY 9439 AUX. WATER PUMP SIL CAPACITY 9430 AUX. WATER PUMP SIL CAPACITY 9431 AUX. WATER PUMP SIL CAPACITY 9432 AUX. BARGINE SILL CAPACITY 9542 AWG 9434 AUX. WATER PUMP SIL CAPACITY 9545 BALANCE 9545 BALANCE	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Aux. Eng. MCG. Aux. Engine Coolant Capacity Aux. Engine Coolant Capacity Aux. Engine Coll Ant Type Aux. Engine Coll Capacity Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Water Pump Serial Number Aux. Mater Pump Serial Number Aux. Mater Pump Serial Number Aux. Kater Pump Serial Number Bitter Y Amp. Serial Number Battery Amp. Fours	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TAPACITY 9425 AUX, ENGINE COOLANT TAPE 7213 AUX, ENGINE MARE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE OIL CAPACITY 9422 AUX, ENGINE SERIA # 7215 AUX, ENGINE SERIA # 7224 AUX, ENGINE SERIA # 9422 AUX, ENGINE SERIA # 9423 AUX, WATER PUMP MFG. 9424 AUX, WATER PUMP MOBEL # 9432 AUX, WATER PUMP MOBEL # 9432 AUX, WATER PUMP SER, # 9433 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX 9435 AUX, WATER PUMP SER, # 9436 AUX, WATER PUMP SER, # 9437 AUX, WATER PUMP SER, # 9438 AUX, WATER PUMP SER, # 9439 AUX, SERIE PUMP SER, # 9440	Auxiliary Switch Rating Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Oli Capacity Aux. Mater Pump Oli Capacity Aux	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENG, MF 9425 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TYPE 7214 AUX, ENGINE MAKE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE OLI CAPACITY 9423 AUX, WATER PUMP MGG, 9428 AUX, WATER PUMP MGG, 9428 AUX, WATER PUMP MODEL # 9432 AUX, WATER PUMP MODEL # 9432 AUX, WATER PUMP MODEL # 9433 AUX, WATER PUMP MOL CAPACITY 9434 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435, AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435, BALARK, TYP 9436, BALARK TYP 10081 BAAQMD SER, NO 9436 BALFERIC PRESSURE 9436 BALFIC 9437 BALSER 9438 BAR TATING 9594 BATTERY	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) Auxilary Tarffic (Y/N) Aux. Engine Coolant Tape Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Water Pump Mouflacture Aux. Water Pump Model Number Aux. Water Pump Oli Tapacity Aux. Water Pump Serial Number AvB Back Water Tank Capacity Barch Breaker Type Barch Breaker Type BAAQMD Source Number BALANCE Y/N, MAKE, MODEL, SERIAL NUMBER. Waterrahed Basin Location Battery Charger Battery Amp-Hours Battery Amp-Hours Battery Amp-Hours	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S188 AUX. ENGINE GOLANT CAPACITY 9422 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9423 AUX. ENGINE OIL CAPACITY 9424 AUX. ENGINE OIL CAPACITY 9425 AUX. ENGINE OIL TYPE 9422 AUX. ENGINE SERIAL # 9423 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP MODEL # 9423 AUX. WATER PUMP SER # 9433 AUX. WATER PUMP SER # 9434 AUX. WATER PUMP SER # 9432 AUX. WATER PUMP SER # 9434 AUX. WATER PUMP SER # 9435 AUX. WATER PUMP SER # 9434 AUX. WATER PUMP SER # 9542 AWS 9543 AUX. WATER PUMP SER # 9544 AUX. 9545 ALMOR 9545 ALMOR 9545 ALMOR 9545 ALMOR 955 ALMOR 956 BALFOR PREVENTER MODEL NUMBER 9572 BL BREAK TYP 10081 BAACMO SER NO 9522 BASIN 9523 BALSIN <td>Auxiliary Switch Rating Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Oli Capacity Aux. Mater Pump Oli Capacity Aux</td> <td>ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>QT GAL GAL</td> <td>YES/NO</td> <td></td>	Auxiliary Switch Rating Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Oli Capacity Aux. Mater Pump Oli Capacity Aux	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENG, MF 9425 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TYPE 7213 AUX, ENGINE MARE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE OLI CAPACITY 9422 AUX, ENGINE STRAL # 9422 AUX, ENGINE STRAL # 9422 AUX, ENGINE STRAL # 9423 AUX, WATER PUMP MFG. 9428 AUX, WATER PUMP MOBEL # 9428 AUX, WATER PUMP MOBEL # 9428 AUX, WATER PUMP MOBEL # 9432 AUX, WATER PUMP MOBEL # 9432 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9436 AUX, WATER PUMP SER, # 9437 AUX, WATER PUMP SER, # 9438 AUX, WATER PUMP SER, # 9439 AUX, CAPACITY 9430 AUX, WATER PUMP SER, # 9431 AUX, WATER PUMP SER, # 9432 AUX 9440 AUX, WATER PUMP SER, #	Auxiliary Switch Rating Auxiliary Traffic (Y/N) Auxiliary Traffic (Y/N) Aux. Engine Coolant Tapacity Aux. Engine Coolant Tapacity Aux. Engine Coolant Tape Aux. Engine Coolant Type Aux. Engine Oli Capacity Aux. Engine Oli Capacity Aux. Engine Serial Number Aux. Engine Oli Type Aux. Mater Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oli Tape Aux. Water Pump Oli Capacity Aux. Mater Pump Oli Capacity Aux. Mater Capacity Aux. Aux. Aux. Aux. Aux. Aux. Aux. Aux.	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S88 AUX ENGINE GOLANT CAPACITY 9424 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE COLANT TYPE 7213 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE COLANT CAPACITY 9425 AUX ENGINE MODEL 9423 AUX ENGINE OLI CAPACITY 9424 AUX ENGINE OLI CAPACITY 9423 AUX ENGINE SIL APACITY 9424 AUX ENGINE SIL APACITY 9425 AUX ENGINE SIL PUMP MOEL # 9424 AUX WATER PUMP MODEL # 9423 AUX WATER PUMP MODEL # 9423 AUX WATER PUMP OLI CAPACITY 9433 AUX WATER PUMP OLI CAPACITY 9433 AUX WATER PUMP OLI CAPACITY 9434 AUX WATER PUMP OLI CAPACITY 9435 AUX WATER PUMP OLI CAPACITY 9434 AUX WATER PUMP OLI CAPACITY 9435 AUX WATER PUMP OLI CAPACITY 9436 AUX WATER PUMP OLI CAPACITY 9437 AUX WATER PUMP OLI CAPACITY 9438 AUX WATER PUMP OLI CAPACITY 9434 AUX WATER PUMP OLI CAPACITY 9525 WAG 9434 AUX WATER PUMP OLI CAPACITY 9528 AUX 9430 AUX ATER PUMP OLI CAPACITY 9528 BACKELOW PREVENTER MODEL NUMBER 9548 BALANE	Auxiliary Switch Rating Auxiliary Tarffic (Y/N) AuX. Eng. MFG. AUX. Eng. MFG. AUX. Engine Coolant Type AUX. Engine Coolant Type AUX. Engine MAKE AUX. Engine MAKE AUX. Engine Oil Capacity Aux. Engine Oil Capacity AuX. Engine Oil Type AuX. Engine Size AUX. Water Pump Manufacture AuX. Water Pump Model Number AuX. Water Pump Oil Capacity AuX. Water Pump Oil Capacity AuX. Water Pump Oil Capacity AuX. Water Pump Model Number AuX. Water Pump Oil Capacity AuX. Mater Pump Oil Capacity	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S041 AUX TRAFIC S048 AUX. ENGINE GOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE SIZE 9423 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MODEL # 9425 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP MODEL # 9428 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP SER. # 9432 AUX. WATER PUMP SER. # 9432 AUX. WATER PUMP SER. # 9433 AUX. WATER PUMP SER. # 9434 AUX. WATER PUMP SER. # 9435 AUX. WATER PUMP SER. # 9434 AUX. WATER PUMP SER. # 9435 AUX. WATER PUMP SER. # 9436 AUX. WATER PUMP SER. # 9437 AUS. 9448 AUX. WATER PUMP SER. # 9438 AUX. WATER PUMP SER. # 9434 AUX. WATER PUMP SER. # 9435 AUX. WATER PUMP SER. # 9440 AUX. WATER PUMP SER. # 9425 AUX. 9435 AUX. WATER PUMP SER.# <	Auxiliary Switch Rating Auxiliary Tarffic (V/N) AuX. Eng. MCG. AuX. Engline Coolant Capacity AuX. Engline Coolant Type AuX. Engline MARE AuX. Engline MARE AUX. ENGINE MARE AUX. ENGLINE OF A A A A A A A A A A A A A A A A A A	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENG, MF 9425 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TYPE 7213 AUX, ENGINE MAKE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE OLI CAPACITY 9422 AUX, ENGINE STRAL # 7213 AUX, ENGINE SERIAL # 7214 AUX, ENGINE SERIAL # 7215 AUX, WATER PUMP MFG. 9422 AUX, WATER PUMP MOEL # 9423 AUX, WATER PUMP MOEL # 9432 AUX, WATER PUMP MOEL # 9433 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9432 AUX, BATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9542 AVB 9552 AWG 9543 AUX, WATER PUMP SER, # 9544 9545 ALARCE 9565 BALTER VIPE 10081 BAACMD SC NO 958 BALCE 9598 BACKFLOW PREVENTER MODEL NUMBER 9545 BALTER 9559 BALTERY	Auxiliary Switch Rating Auxiliary Traffic (V/N) Auxiliary Traffic (V/N) Aux. Engine Coolant Tapacity Aux. Engine Coolant Tape AUX. ENGINE MAKE AUX. ENGINE MAKE Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Water Pump Monufacture Aux. Water Pump Monufacture Aux. Water Pump Molil Capacity Aux. Water Pump Oil Capacity Aux. Water Pump Molil Capacity Aux. Water Pump Oil Tape Aux. Water Pump Oil Capacity Aux. Water Pump Oil Tape Aux. Water Pump Oil Tape Aux. Water Pump Serial Number Aux. Water Pump Serial Number Back Mater Tank Capacity Water Tank Capacity Water Tank Capacity Banch Brasker Type Backflow Preventer Model Number Backflow Preventer Model Number Backflow Preventer Model Number Battery Model Battery Model Battery Model Battery Model Battery Charger	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S41 AUX TRAFIC S428 AUX ENGINE COLANT CAPACITY 9425 AUX ENGINE COLANT TYPE 213 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE COLANT CAPACITY 9425 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE MOREL 9423 AUX ENGINE OIL CAPACITY 9424 AUX ENGINE OIL CAPACITY 9423 AUX ENGINE SIL # 7215 AUX ENGINE SIL # 7215 AUX ENGINE SIZE 9428 AUX WATER PUMP MOEL # 9428 AUX WATER PUMP MOEL # 9423 AUX WATER PUMP GOL CAPACITY 9433 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9436 AUX WATER PUMP GOL CAPACITY 9437 AUX WATER PUMP GOL CAPACITY 9438 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9436 BALTACE 10352 BAROMERIC PRESSURE BAL RATING	Auxiliary Switch Rating Auxiliary Traffic (V/N) Auxiliary Traffic (V/N) Aux. Engine Colant Capacity Aux. Engine Colant Type AUX. Engine MAKE AUX. Engine MODEL Aux. Engine Oil Capacity Aux. Engine Oil Type Aux. Engine Oil Type Aux. Engine Oil Type Aux. Engine Serial Number Aux. Water Pump Manufacture Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Back Water Tank Capacity Back Water Tank Capacity Branch Breaker Type BackObus Preventer Model Number BackObus Charger Battery Oinersions- WateD Battery Charger Battery Charger Battery Model Battery Model Battery Model Bauter for moderm Baud rate for moderm Bau	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S41 AUX TRAFIC S188 AUX. ENGINE GOLANT CAPACITY 9425 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE COOLANT TYPE 7213 AUX. ENGINE MARE 7214 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE SILE 9422 AUX. ENGINE SILE 9422 AUX. ENGINE SILE 9422 AUX. ENGINE SILE 9423 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP MIC CAPACITY 9432 AUX. WATER PUMP MOL CAPACITY 9433 AUX. WATER PUMP SIL. # 9434 AUX. WATER PUMP SIL. # 9435 AUX. WATER PUMP SIL. # 9434 AUX. WATER PUMP SIL. # 9435 AUX. WATER PUMP SIL. # 9436 AUX. WATER PUMP SIL. # 9437 AWW RATING 9562 AWG 9438 AUX. WATER PUMP SIL. # 9439 AUX. WATER PUMP SIL. # 9430 AUX. WATER PUMP SIL. # 9431 AUX. WATER PUMP SIL. # 9434 BATER PUMP SILE 9435 AUX. WATER PUMP SILE 9564 BAT TATANS 9565 BALA	Auxiliary Switch Rating Auxiliary Tarffic (V/N) Aux. Engine (V/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type AuX. Engine MARE AUX. ENGINE MARE AUX. ENGINE MARE AUX. ENGINE MARE AUX. ENGINE MIDPE Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Type Aux. Water Pump Oil Type Aux. Water Pump Oil Capacity Aux. Water Pump Oil Type Aux. Water Pump Oil Spe Aux. Water Pump Oil Type Aux. Water Pump Oil Spe Biack Water Tank Capacity Aux. Water Spe Biater Ynpe Bi	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFIC S41 AUX TRAFIC S428 AUX ENGINE COLANT CAPACITY 9425 AUX ENGINE COLANT TYPE 213 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE COLANT CAPACITY 9425 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE MOREL 9423 AUX ENGINE OIL CAPACITY 9424 AUX ENGINE OIL CAPACITY 9423 AUX ENGINE SIL # 7215 AUX ENGINE SIL # 7215 AUX ENGINE SIZE 9428 AUX WATER PUMP MOEL # 9428 AUX WATER PUMP MOEL # 9423 AUX WATER PUMP GOL CAPACITY 9433 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9436 AUX WATER PUMP GOL CAPACITY 9437 AUX WATER PUMP GOL CAPACITY 9438 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 BASIN 9436 BALTERY CHOR 9437 BALTY 9438 BALTYPE 9438 BALTYPE	Auxiliary Switch Rating Auxiliary Tarffic (V/N) Auxilary Tarffic (V/N) Aux. Engine Coolant Tapacity Aux. Engine Coolant Tape AUX. ENGINE MAKE AUX. ENGINE MAKE AUX. ENGINE MAKE Aux. Engine Oil Capacity Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Brack Mater Tank Capacity Branch Brasker Type BAAMOD Source Number Backflow Preventer Model Number BALANCE V/N. MAKE, MODEL, SERIAL NUMBER. Watershed Basin Location Battery Anger Battery Oharger Battery Oharger Battery Oharger Battery Oharger Battery Charger Baud	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO	
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENG, MF 9425 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TYPE 7213 AUX, ENGINE MAKE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE OLI CAPACITY 9422 AUX, ENGINE SIZE 9422 AUX, WATER PUMP MFG. 9423 AUX, WATER PUMP MOEL # 9432 AUX, WATER PUMP OLI CAPACITY 9433 AUX, WATER PUMP SIZE, # 9434 AUX, WATER PUMP SIZE, # 9435 AUX, WATER PUMP SIZE, # 9434 AUX, WATER PUMP SIZE, # 9435 AUX, WATER PUMP SIZE, # 9434 AUX, WATER PUMP SIZE, # 9542 AVB 9552 AWG 9543 AUX, WATER PUMP SIZE, # 9544 9545 AUX 9565 BUX MER PUMP SIZE, # 9562 AWG 9563 BATTER TYPE 9564 BATT RATING 9564 BATT RATING 9565 BUX DIX	Auxiliary Switch Rating Auxiliary Tarffic (V/N) Aux. Engine (V/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Type Aux. Engine Coolant Type AuX. Engine MARE AUX. ENGINE MARE AUX. ENGINE MARE AUX. ENGINE MARE AUX. ENGINE MIDPE Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Type Aux. Water Pump Oil Type Aux. Water Pump Oil Capacity Aux. Water Pump Oil Type Aux. Water Pump Oil Spe Aux. Water Pump Oil Type Aux. Water Pump Oil Spe Biack Water Tank Capacity Aux. Water Spe Biater Ynpe Bi	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL	YES/NO YES/NO BEARING TYPE	
SS95 AUX SWI RATE S941 AUX TRAFIC S41 AUX TRAFIC S88 AUX ENGINE COLANT CAPACITY 9425 AUX ENGINE COLANT TYPE 213 AUX ENGINE COLANT CAPACITY 9424 AUX ENGINE COLANT TYPE 213 AUX ENGINE MOREL 9423 AUX ENGINE MOREL 9423 AUX ENGINE OLI CAPACITY 9424 AUX ENGINE DIL TYPE 9423 AUX ENGINE SIC APACITY 9424 AUX ENGINE DIL TYPE 9423 AUX ENGINE SIC APACITY 9424 AUX ENGINE SIC APACITY 9425 AUX WATER PUMP MOEL # 9426 AUX WATER PUMP MOEL # 9427 AUX WATER PUMP GOL CAPACITY 9433 AUX WATER PUMP GOL CAPACITY 9434 AUX WATER PUMP GOL CAPACITY 9435 AUX WATER PUMP GOL CAPACITY 9436 AUX WATER PUMP GOL TYPE 9437 AUX WATER PUMP GOL TYPE 9438 AUX WATER PUMP GOL TYPE 9439 AUX WATER PUMP GOL TYPE 9430 AUX WATER PUMP GOL TYPE 9432 AUX 9432 AUX 9434 AUX WATER PUMP GOL TYPE 9435 AUX WATER PUMP GOL TYPE 9434 BATTERY PUMP GOL TYPE 9435 AUX WATER PUMP GOL TYPE 9406 EVAL WARENTER MODEL NUMBER <td>Auxiliary Switch Rating Auxiliary Switch Rating Auxiliary Traffic (V/N) Aux. Engine Colant Capacity Aux. Engine Colant Type AUX. Engine MAKE AUX. Engine MODEL Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Sill Sumber AUX. Engine Sill Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Back Water Tank Capacity Wirke SIZE AWWA Rating Biack Water Tank Capacity Branch Breaker Type BackTow Terventer Model Number BalackTow Terventer Model Number Balactry Dimersions- WatkD Battery Charger Battery Model Battery Charger Battery Charger Battery Model Baud Rate Baud Rate Baud rate for modem<</td> <td>ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>QT GAL GAL</td> <td></td> <td></td>	Auxiliary Switch Rating Auxiliary Switch Rating Auxiliary Traffic (V/N) Aux. Engine Colant Capacity Aux. Engine Colant Type AUX. Engine MAKE AUX. Engine MODEL Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Sill Sumber AUX. Engine Sill Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Aux. Water Pump Serial Number Back Water Tank Capacity Wirke SIZE AWWA Rating Biack Water Tank Capacity Branch Breaker Type BackTow Terventer Model Number BalackTow Terventer Model Number Balactry Dimersions- WatkD Battery Charger Battery Model Battery Charger Battery Charger Battery Model Baud Rate Baud Rate Baud rate for modem<	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL		
SS95 AUX SWI RATE S941 AUX TRAFIC S41 AUX TRAFIC S188 AUX. ENG. MF 9425 AUX. ENGINE COOLANT CAPACITY 9424 AUX. ENGINE COOLANT TRPE 7131 AUX. ENGINE MARE 7213 AUX. ENGINE MODEL 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE OIL CAPACITY 9422 AUX. ENGINE SIZE 9423 AUX. WATER PUMP MFG. 9424 AUX. WATER PUMP MFG. 9425 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP MODEL # 9432 AUX. WATER PUMP SIZ. # 9432 AVB 9432 AVB 9432 AVB 9432 AVB 9434 AVB 9434 AVB 9435 AUX. WATER PUMP SIZ. # 9434 AVB 9435 AUX. WATER PUMP SIZ. # 9434 AVB 9442 AVB 9452 AVG 9435 AUX. WATER PUMP SIZ. # 9444 AVB	Auxiliary Switch Rating Auxiliary Traffic (V/N) Auxiliary Traffic (V/N) Aux. Engine Coolant Capacity Aux. Engine Coolant Capacity Aux. Engine Coolant Type AUX. ENGINE MARE Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Oil Type Aux. Engine Serial Number Aux. Engine Serial Number Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Back. Water Tank Capacity Back Water Tank Capacity	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL		
SS95 AUX SWI RATE S941 AUX TRAFFIC S041 AUX TRAFFIC S048 AUX, ENG, MF 9425 AUX, ENGINE COOLANT CAPACITY 9425 AUX, ENGINE COOLANT TYPE 7213 AUX, ENGINE MAKE 7214 AUX, ENGINE MODEL 9422 AUX, ENGINE OL CAPACITY 9422 AUX, ENGINE SERAL # 7214 AUX, ENGINE SERAL # 7214 AUX, ENGINE SERAL # 7215 AUX, ENGINE SERAL # 7214 AUX, ENGINE SERAL # 9422 AUX, WATER PUMP MFG. 9428 AUX, WATER PUMP MOEL # 9432 AUX, WATER PUMP MOEL # 9433 AUX, WATER PUMP GUI CAPACITY 9434 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9433 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9432 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9434 AUX, WATER PUMP SER, # 9435 AUX, WATER PUMP SER, # 9436 AUX, WATER PUMP SER, # 9437 AUX, WATER PUMP SER, # 9438 AUX, WATER PUMP SER, # 9542 AUX 9543 BATTER TYPE	Auxiliary Switch Rating Auxiliary Tarffic (V/N) Auxilary Tarffic (V/N) Aux. Engine Coolant Tapacity Aux. Engine Coolant Tape AUX. ENGINE MAKE AUX. ENGINE MAKE AUX. ENGINE MAKE Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Oil Capacity Aux. Engine Serial Number Aux. Kerik Pump Manifacture Aux. Water Pump Model Number Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Oil Capacity Aux. Water Pump Model Number Aux. Water Pump Oil Capacity Aux. Water Pump Serial Number Back Mater Tank Capacity Branch Brasker Type Backflow Preventer Model Number BaLANCE V/N. MAKE, MODEL, SERIAL NUMBER. Watershed Basin Location Battery Anger Battery Charger Battery Charger Battery Charger Battery Charger Battery Charger <	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	QT GAL GAL		

	Belt Length	ALN		COMPACTOR	
	BELT NO.	ALN			
	Drive Belt Size Bid Item	ALN			
	bil	ALN	KV		
	BIL PRIMARY WINDING	ALN	KV.		
	BIL SECONDARY WINDING	ALN			
	Backflow Prevention Valve	ALN		VALVE TYPE	
	Has Backflow Prevention Y/N	ALN		YES/NO	
	Engine Block Heater Voltage	ALN			
	Engine Block Heater Wattage	ALN			
	Building Height	ALN			
	Building Rehabilitation	ALN			
5955 BLDGFOOTPRNT	Building Foot Print	ALN			
5720 BLK HEAT PHS	Block Heater Phase	ALN			
5719 BLK HEAT V	Block Heater Voltage	ALN	VOLTS		
7982 BLKLOT	Block Lot	ALN			
	Block Heater	ALN	WATTS		
8602 BLOW OFF		ALN			
	Blower Drive Type	ALN		BLOWER DRIVE	
	Material	ALN			
	Blower Type	ALN		BLOWER TYPE	
	12"BO	ALN			
	Belt Press Type	ALN		BELT PRESS TYPE	
	Body Material Type BODY TYPE	ALN			
	Boller Control System	ALN			
	Boiler Control System Boiler Fuel Type	ALN		BOILER FUEL TYPE	
	Boiler Type	ALN		BOILER TYPE	
	Boom Length	ALN			
	Bowl	ALN			
	Bowl Speed	ALN			
	Type of Brakes	ALN			
	Breaker Size	ALN			
	Breaker Type	ALN		BREAKER TYPE	
	Breaker Manufacturer	ALN			
	Breaker Rating	ALN			
	Breaker Serial Number	ALN			
	Breaker Trip Size	ALN			
5895 BSE-1 LEVEL	ASCE 41 Earthquake Hazard	ALN			
5896 BSE-2 LEVEL	ASCE 41 Earthquake Hazard	ALN			
5628 BUCKET SIZE	Bucket Size - H	ALN	INCHES		
	Building/Structure	ALN			
	Buried/Vault/Building	ALN			
	BUS BRACING RATING	ALN			
	Bus Bracing Rating	ALN			
	Bus Controller	ALN			
	Bus IO Link Interface	ALN			
	CU or AL	ALN			
8826 BUS RATING		NUMERIC	AMPS		
	Bus Receiver	ALN			
	Bus Receiver	ALN			
	Bus Scanners Bus Trans	ALN			
	Bus Trans Bus Transmitter	ALN			
	Bus Type	ALN			
	Bushings HV - Quantity, Style	ALN			
	Bushings LV - Quantity, Style	ALN			
	Bypass	ALN			
	closing latching rating	ALN			
	Closing - Latching Rating	ALN	KA		
10284 CABLE LENGTH		ALN			
10282 CABLE TYPE		ALN			
6158 CAGE	Cage	ALN			
5974 CAKE DISCHRG	Cake Discharge	ALN			
	Calculation Ratio	ALN			
	Calibrated	ALN			
	Caclbrated	ALN			
	Capacity	ALN			
	Capacity (BTUs)	ALN			
7791 CAPICITY		ALN	AH		
7722 CAPICTY	Carling	ALN	KVA		
	Casing #	ALN			
	# Catalog Number	ALN			
	Catalog Number				
10234 CC 9624 CCD CAMERA MFG	CCD Camera Manufacture	ALN			
	CCD Camera Manuracture CCD Camera Model	ALN			
	CCD Camera Serial Number	ALN			
	CCTV Cable Drum System Manufacture	ALN			
	CCTV Cable Drume Model	ALN			
	CCTV Cable Drum Serial Number	ALN			
9642 CCTV CABLE DRUM SER #	CCTV Cable Druin Serial Number				
	Ceiling Finish Type	ALN			
5977 CEIL FIN TYP		ALN ALN			
5977 CEIL FIN TYP	Ceiling Finish Type				
5977 CEIL FIN TYP 5978 CEILING HT 7790 CELL TYPE	Ceiling Finish Type	ALN			
5977 CEIL FIN TYP 5978 CEILING HT 7790 CEIL TYPE 5695 CEIL VOLTAGE	Ceiling Finish Type Ceiling Height	ALN ALN			
5977 CEIL FIN TYP 5978 CEILING HT 7790 CEIL TYPE 5965 CEIL VOLTAGE 5979 CERT DATE	Ceiling Finish Type Ceiling Height Ceil Voltage	ALN ALN ALN			
5977 CELL FIN TYP 5978 CELL TYPE 5995 CELL VOLTAGE 5979 CELT VOLTAGE 5979 CERT DATE 5980 CERT LOC 5981 CERT VEAR	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Kear	ALN ALN ALN ALN ALN ALN			
5977 CEL FIN TYP 5978 CELL FIN GHT 7790 CELL TYPE 5955 CELL VOLTAGE 5979 CERT DATE 5980 CERT DATE 5981 CERT VEAR 6090 CERT#	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Year CERTI#	ALN ALN ALN ALN ALN ALN ALN			
5977 CEIL FIN TYP 5978 CEIL NG HT 7590 CEIL TYPE 5695 CEIL VOLTAGE 5979 CERT DATE 5980 CERT LOC 5981 CERT YEAR 6090 CERT# 5982 CERT#IED BY	Ceiling Finish Type Ceiling Finish Type Ceiling Height Ceiling Voltage Certification Date Certification Location Certification Location Certification Cear CERT# CERT# CERT# CErtified By	ALN ALN ALN ALN ALN ALN ALN ALN			
5977 CELL FIN TYP 5978 CELL FVPE 5978 CELL VOLTAGE 5979 CELL VOLTAGE 5970 CELT VOLTAGE 5980 CERT UOC 5981 CERT YEAR 6090 CERT WEAR 6090 CERTIFIED BY 5983 CFM	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Year CERT# Certified By Certified By Certified By	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5977 CEL FIN TYP 5978 CELING HT 7790 CELI TYPE 5959 CEL VOLTAGE 5979 CERT DATE 5980 CERT DATE 5980 CERT MO 5981 CERT WEAR 6090 CERT# 5982 CERTHER 5983 CFM	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Vear Certification Year CERT# Certified By CFM Type of Change	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5977 CELFIN TYP 5972 CELFING HT 7930 CELL TYPE 5695 CELL VOLTAGE 5979 CERT DATE 5980 CERT LOC 5981 CERT YEAR 6090 CERT# 5982 CERTHEO BY 5983 CFM 5983 CFM 5983 CFM 5983 CFM	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Year CERT# Certified By Certified By Certified By	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KW		
5977 CELL FIN TYP 5978 CELL FIN TYP 5970 CELL TYPE 5959 CELL VOLTAGE 5970 CELT VOLTAGE 5980 CERT LOC 5981 CERT YEAR 6090 CERT UOC 5982 CERTIFIED BY 5983 CFM 5983 CFM 7604 CHANGETYPE 5764 CHANNEL 1 (WH OR GKWH)	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Year CERT# CERT# CERT# CERT# CERT# CERT# CERT# Upt of Change Unit of measure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5977 CELL FIN TYP 5978 CELL FIN TYP 5978 CELL TYPE 5950 CELL VOLTAGE 5979 CERT DATE 5980 CERT LOC 5981 CERT VEAR 6090 CERT# 5982 CERTIFIED BY 5983 CFM 7604 CHANGETYPE 5764 CHANNEL 1 9788 CHANNEL 1 9788 CHANNEL 1	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Vear Certification Year CERT# Certified By CFM Type of Change	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KW		
5977 CELLFIN TYP 5972 CELLFIN TYP 5970 CELL TYPE 5695 CELL VOLTAGE 5979 CERT DATE 5980 CERT LOC 5981 CERT YEAR 6090 CERT# 5983 CERTHED BY 5983 CFM 5983 CFM 5983 CFM 5984 CHANKEL DY 5976 CHANKEL 1 (WH OR GKWH) 5765 CHANKEL 2 5796 CHANKEL 2	Ceiling Finish Type Ceiling Hnish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Location Certification Cear Certified By Certified By Certified By CrM CrM Duit of measure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	ĸw		
5977 CELL FIN TYP 5978 CELL FIN TYP 5970 CELL TYPE 5955 CELL VOLTAGE 5970 CELT TYPE 5980 CERT LOC 5981 CERT YEAR 6090 CERT HOC 5982 CERT HED BY 5983 CFM 5983 CFM 5984 CHANGETYPE 5764 CHANNEL 1 5765 CHANNEL 2 5766 CHANNEL 3	Ceiling Finish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Year CERT# CERT# CERT# CERT# CERT# CERT# CERT# Upt of Change Unit of measure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5977 CELL FIN TYP 5978 CELL FIN TYP 5978 CELL TYPE 5959 CELL VOLTAGE 5979 CELL TYPE 5980 CERT DATE 5980 CERT LOC 5981 CERT YEAR 6090 CERTH 5982 CERTIFIED BY 5982 CERTIFIED BY 5983 CFM 7604 CHANGETYPE 5766 CHANNEL 1 (WH OR GKWH) 5765 CHANNEL 2 (WARH OR GKVARH) 5766 CHANNEL 3 (WH OR GKWH)	Ceiling Finish Type Ceiling Hnish Type Ceiling Height Ceil Voltage Certification Date Certification Location Certification Ceation Certification Ceation Certified By CFM CFM CFM CFM Certified By CFM Unit of measure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	ĸw		

10448 CHANNE 10450 CHANNE	F 1 A	CHANNEL 1 (KWH OR GKWH)	A 1 A 1			
		CHANNEL 1 (KWH OR GKWH) CHANNEL 2 (KVARH OR GKVARH)	ALN			
10450 CHANNE 10462 CHANNE		CHANNEL 2 (KVH OR GKWH)	ALN			
10464 CHANNE		CHANNEL 5 (KVARH OR GKVARH)	ALN			
9822 CHARAC	CTER LABEL	Character Label	ALN			
10288 CHARGE	E REGULATOR	Y/N, TYPE	ALN			
5984 CHEM TR		Has Chemical Treatment Y/N	ALN		YES/NO	
5985 CHEMICA		Chemical Type	ALN			
6169 CIRCUIT		circuit	ALN			
5488 CIRCUIT		Circuit Number	ALN			
7464 CIRCUIT		X-CIRCUIT SP	ALN			
5986 CITY		City	ALN			
9186 CL, TA, T			ALN		C1 A CC	
6083 CLASS		CLASSIFICATION	ALN		CLASS	
7082 CLASS/BI 6175 CLASSIFI		SECURITY CLASSIFICATION	ALN			
8808 CLEAN		Clean to Make Accessible	ALN			
9202 CLEANM		Clean Measurement	NUMERIC	FT		
9204 CLNMSR		Reason for Clean Footage Variance	ALN			
5528 CLOSE CO		closing coil current	ALN	AMPS		
5525 CLOSING		closing time		CYCLES		
5987 CMPRSS		Compressor Motor Horsepower	ALN			
5988 CMPRSS		Compressor Drive Type	ALN		COMPRESSOR DRIVE	
5989 CMPRSS		Compressor Material	ALN			
5990 CMPRSS		Compressor Type	ALN		COMPRESSOR TYPE	
5991 CNFINED		Confined Space (Y/N)	ALN		YES/NO	
5992 CNFN SP		Confnd Spc Mrkr on Vault Lid	ALN		YES/NO	
5452 CO		CO #	ALN			
5994 CO2 RAT		CO2 Rate	ALN			
5581 COATING		Coating	ALN			
6237 CODE		CODE	ALN			
5995 CODE LE	ETTER	Code Letter	ALN			
5996 COF FIN		COF Financial Risk	ALN		COF FINANCIAL RISK	
5997 COF OPR	R IMPC	COF Operational Impact	ALN		COF OPERAT IMPACT	
5998 COF PB I		COF Public Impact Risk	ALN		COF PUB IMPACT RSK	
5999 COF REG		COF Regulatory Impact	ALN		COF REGULAT	
6000 COF SCO		Consequence Of Failure Score	ALN			
6001 COF SFTY		COF Safety Risk	ALN		COF SAFETY RISK	
5626 COIL SIZE		Coil Size	ALN			
8542 COLOR		STREET LIGHT POLE COLOR	ALN			
5678 COMM C	COPROCE	Co-Processor Comm Module	ALN			
6002 COMM P	PROTCL	Communication Protocol	ALN			
8922 COMM P	PROTOCOL SUPPORTED		ALN			
6003 COMM T	TYPE	Communication Type	ALN			
6078 COMME	ENTS	Comments	ALN			
5855 COMME	ENTS 2	Comments	ALN			
5573 COMMU		Wireless or Hardwired	ALN			
6004 COMMU	UNICATN	Communication	ALN			
6005 COMPAC		Compactor	ALN		COMPACTOR	
6006 COMPAR		Compartments	ALN			
7264 COMPLIA		GOP, TOP, GOP & TOP, OTHER	ALN			
7504 COMPON		COMPONANTS INCLUDED	ALN			
7510 COMPON		CONTACTOR, RELAY, OTHER	ALN			
	ESSED AIR REQUIRNMENT		ALN	Y/N		
6007 COMPRE		Compressor	ALN			
6008 COMPRS		Compressor Manufacturer	ALN			
6009 COMPRS		Compressor Model Number	ALN			
		Connected to Fire Alarm Sys				
6010 CON FIRE			ALN		YES/NO	
6011 CON NRG	RGY MGT	Connected to Energy Mgmt Sys	ALN		YES/NO YES/NO	
6011 CON NRG 6012 COND RI	IGY MGT IISK BY	Connected to Energy Mgmt Sys Condition/Risk Assessed By	ALN ALN			
6011 CON NRG 6012 COND RI 6013 COND UI	IGY MGT IISK BY INT MFG	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer	ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UN 6014 COND UN	NGY MGT IISK BY INT MFG INT SER	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer Condensing Unit Serial Number	ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG P	IGY MGT ISK BY INT MFG INT SER PROTCL	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer Condensing Unit Serial Number Configuration Protocol	ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG P 7062 CONFIGL	IGY MGT ISK BY INT MFG INT SER PROTCL URATION HIGH	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer Condensing Unit Serial Number Configuration Protocol DELTA, WYE	ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG P 7062 CONFIGL 7064 CONFIGL	IGY MGT ISK BY INT MFG INT SER PROTCL URATION HIGH URATION LOW	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Ulti Manufacturer Condensing Unit Serial Number Configuration Protocol DELTA, WYE DELTA, WYE	ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRG 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG P 7062 CONFIGL 7064 CONFIGL 7010 CONFIGL	IGY MGT ISK BY INT MFG PROTCL URATION HIGH URATION LOW URATION PHASE	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer Configuration Protocol DEITA, WYE DEITA, WYE LIZTA, WYE 1, 2 , OR 3 PH	ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG P 7062 CONFIGU 7064 CONFIGU 7000 CONFIGU 7006 CONFIGU	IGY MGT ISK BY INT SER PROTCL URATION HIGH URATION IOW URATION PHASE URATION PHASE URATION PHARARY	Connected to Energy Mgmt Sys Condition/Nkk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WVE DELTA, WVE DELTA, WVE DELTA, WVE	ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRG 6012 COND RI 6013 COND UT 6014 COND UT 6015 CONFIG 7062 CONFIG 7064 CONFIG 7010 CONFIG 7000 CONFIG 7008 CONFIG	IGY MGT ISK BY ISK BY INT SER PROTCL URATION HIGH URATION NEMARY URATION PHASE URATION SECONDARY	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Ulti Manufacturer Condensing Unit Serial Number Configuration Protocol DEITA, WYE DEITA, WYE DEITA, WYE DEITA, WYE DEITA, WYE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRG 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG P 7062 CONFIGL 7064 CONFIGL 7006 CONFIGL 7006 CONFIG 7008 CONFIG 7008 CONFIG	IGY MGT ISK BY INT MFG INT SER PROTCL URATION HIGH URATION LOW URATION PHASE ULATION PRIMARY ULATION PRIMARY LEDSPACE	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer Condensing Unit Serial Number Condiguation Protocol DELTA, WYE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRG 6012 COND UI 6013 COND UI 6014 COND UI 6015 CONFIGE 7062 CONFIGE 7006 CONFIGE 7006 CONFIGE 7008 CONFIGE 8830 CONFINE 8790 CONFVA	IGY MGT ISK BY ISK BY USATION HIGH UJRATION HIGH UJRATION HIGH UJRATION HIGH UJRATION PHASE UJRATION PHASE UJRATION SECONDARY EDSPACE ALVIDCC	Connected to Energy Mgmt Sys Condition/Rkk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 CONF UI 6015 CONFG P 7062 CONFIG 7006 CONFIG 7006 CONFIG 7008 CONFIG 8810 CONFIG 8810 CONFIG 8900 CONFA	IGY MGT ISK BY ISK BY UNT MEG UNT SER UNT SER UNATION HIGH URATION HOW URATION NPHASE URATION PHASE URATION SECONDARY EDSSPACE LLVLOC	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Ulti Manufacturer Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE Confined Space Confirmd Space Confirm Valve Location CONID	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG 7064 CONFIGL 7064 CONFIGL 7006 CONFIGL 8810 CONFIGL 8810 CONFIGL 8810 CONFIGL 8979 CONFON 6091 CONID 6016 CONI IN	IGY MGT ISK BY INT MFG INT SER PROTCL URATION HIGH URATION LOW URATION PHASE URATION PHASE URATION PRIMARY URATION SECONDARY EDSPACE LVLOC NLT SZ	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Manufacturer Confeyration Protocol DELTA, WYE DELTA, WYE DEL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6015 CONFIG 7062 CONFIG 7064 CONFIG 7006 CONFIG 7006 CONFIG 8100 CONFIG 8100 CONFIG 8190 CONFU 6191 CONID 6016 CONN IO	IGY MGT ISK BY ISK BY USATION HIGH UBATION HIGH UBATION HIGH UBATION HIGH UBATION HIGH UBATION PHASE UUBATION PHASE ULBATION PHASE EDSPACE ALVLOC NLT SZ UULT SZ	Connected to Energy Mgmt Sys Condition/Rkk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG 7064 CONFIGL 7064 CONFIGL 7006 CONFIGL 8810 CONFIGL 8810 CONFIGL 8810 CONFIGL 8979 CONFON 6091 CONID 6016 CONI IN	IGY MGT ISK BY ISK BY UNT MFG UNT SER PROTCL UUDATION HIGH URATION HIGH URATION NEGH URATION PHASE ULIATION RHASE EOSPACE EOSPACE LIVIOC NLT SZ UULT SZ TORS	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DeLTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6015 CONFIG 7062 CONFIG 7064 CONFIG 7006 CONFIG 7006 CONFIG 8100 CONFIG 8100 CONFIG 8100 CONFIG 6016 CONN IN 6016 CONN IN 6017 CONN OI 6018 CONFIC	IGY MGT ISK BY INT ER URATION PHASE URATION PHASE URATION PHASE URATION PHASE URATION PRIMARY URATION SCONDARY EDSPACE NUT SZ ULT SZ CTORS MATL	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE DELTA, WYE Connecton Inlet Size Connection Inlet Size Connection Outlet Size Connection Outlet Size Connection Outlet Size Connection Outlet Size Connection Outlet Size Connection Size Connection Size Connection Size Connection Size	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND B 6013 COND UI 6013 COND UI 6015 CONFG 7062 CONFIG 7064 CONFIG 7000 CONFIG 8810 CONFIG 8810 CONFIN 8810 CONFIN 6091 CONID 6016 CONNIN 6017 CONN OI 6018 CONNEC 6019 CONST M	IGY MGT ISK BY ISK BY USATION HIGH UJATION HIGH UJATION HIGH UJATION HIGH UJATION HIGH UJATION PHASE UJUATION PHASE UJUATION PHASE UJUATION SECONDARY EDSPACE ULVLOC NLT SZ UJUT SZ UJUT SZ UJUT SZ UJUT SZ UTORS MATL TYPE	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DeLTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 CONFIGL 7062 CONFIGL 7064 CONFIGL 7006 CONFIGL 7008 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 6017 CONID 6017 CONID 6018 CONNEC 6019 CONTA 6021 CONN OI 6018 CONNEC 6019 CONSTCI	IGY MGT ISK BY ISK BY UNT MFG UNT SER PROTCL UUATION HIGH URATION HIGH URATION NIGH URATION NEGH URATION SECONDARY EDSSPACE ELVLOC NLT 52 NLT 52 NLT 52 TORS MATL TYPE TECTR	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Confegration Protocol DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE DELTA, WTE Confined Space Confirm Valve Location CONID Connection Inlet Size Connection Culter Size Connectors Construction Material Construction Material	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 CONFIGL 7062 CONFIGL 7064 CONFIGL 7006 CONFIGL 7008 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 6017 CONID 6017 CONID 6018 CONNEC 6019 CONTA 6021 CONN OI 6018 CONNEC 6019 CONSTCI	IGY MGT ISK BY ISK BY ISK BY INT MFG INT SER PROTCL URATION HIGH URATION LOW URATION PHASE IURATION PHASE IURATION SCONDARY EDSPACE INT SZ IURATION SZ IULT SZ	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Uhit Serial Number Configuration Protocol DELTA, WFE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6015 CONFG 7064 CONFIG 7006 CONFIG 7000 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 6016 CONFIG 6016 CONFIG 6016 CONN IN 6017 CONN O 6018 CONST M 5833 CONST M	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WYE DELTA, WYE D	ALN	AMPS	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 7062 CONFIGL 7064 CONFIGL 7006 CONFIGL 7006 CONFIGL 8109 CONFIG 8170 CONFIGL 8170 CONFIGL 8170 CONFIGL 6016 CONN IN 6017 CONN OI 6018 CONNEC 6019 CONST 81833 CONST. 6232 CONSTRI 9362 CONSTRI 9362 CONSTRI 9362 CONSTRI	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UT 6014 COND UT 6014 COND UT 6015 CONFIG 7062 CONFIG 7066 CONFIG 7006 CONFIG 7006 CONFIG 8170 CONFIG 8170 CONFIG 8170 CONFIG 6011 CONT IN 6017 CONT ON 6018 CONTEC 6019 CONT A 6021 CONT IN 6017 CONT IN 60	IGY MGT ISK BY ISK BY ISK BY ISK BY ISK BY ISK BY INT SER PROTEL UJATION HIGH UJATION HIGH UJATION HIGH UJATION NIGH UJATION NIGH UJATION PHASE LUJATION PHASE EDSPACE LVI.OC ISK DY ISK	Connected to Energy Mgmt Sys Condition/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WVE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 7008 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 6017 CONN OI 6018 CONNE 6019 CONT 6018 CONT 6	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 7062 CONFIGL 7064 CONFIGL 7064 CONFIGL 7006 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 8910 CONFO 6016 CONN 0I 6016 CONN 0I 6016 CONN 0I 6017 CONN 0I 6018 CONNEC 6019 CONST 8833 CONTA 5833 CONTA 5932 CONST 6143 CONSUM 6143 CONSUM	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND RI 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 6016 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 6016 CONN IN 6017 CONN OI 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 7008 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 6017 CONN OI 6018 CONNE 6019 CONTA 6019 CONTA 6020 CONTAL 5033 CONTAL 5033 CONTAL 5033 CONTAL 5032 CONTAL 5032 CONTAL 5032 CONTAL 5032 CONTAL 5032 CONTAL	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE D	ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 7062 CONFIGL 7064 CONFIGL 7064 CONFIGL 7006 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 8910 CONFO 6016 CONN 0I 6016 CONN 0I 6016 CONN 0I 6017 CONN 0I 6018 CONNEC 6019 CONTO 8833 CONTA 5833 CONTA 5932 CONTAN 5707 CONTINU 5707 CONTAN 5707 CONTAN 5707 CONTAN 5707 CONTAN 5708 CONTAN 5709 CONTAN	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WVE Confined Space Confirm Valve Location CONID Consection Inlet Size Connection Outlet Size Connection Outlet Size Connection Outlet Size Connectors Construction Kerial Construction Type Construction Contractor ID CONSTRUCTION INSPECTION TYPE Consume KWA-Continuous KWA-Continuous KWA-Continuous Contract Number Contrac	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 6015 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 7008 CONFIGL 8790 CONFIG 8790 CONFIG 8790 CONFIG 8790 CONFIG 6011 COND 6012 CONTO 6012 CONTO 6018 CONNEC 6019 CONTO 6018 CONNEC 6019 CONTO 6018 CONNEC 6019 CONTO 6018 CONNEC 6019 CONTO 6018	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WYE DELTA, WHE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 7008 CONFIGL 7008 CONFIGL 8700 CONFIGL 8700 CONFIGL 8700 CONFIGL 8700 CONFIGL 6017 CONN OI 6017 CONN OI 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6020 CONT 6020 CONT 5030 CONT 503	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE Confired Space Confired Space Confired Space Confired Space Confired Space Construction Intel Size Connection SUB Construction Contractor ID Construction Contractor ID CONSTRUCTION INSPECTION TYPE Construction Contractor ID CONSTRUCTION INSPECTION TYPE Construction Contract Number Contract OF MGME ABUILD CONSTRUCTION CONSE Contract Number Contract OF MGME ABUILD CONSE Contract Number Contract OF MGME ABUILD CONSE Contract OF MGME ABUILD CONSE Contract OF MGME CONSE CON	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 CONF UI 6014 COND UI 6014 COND UI 7062 CONFIGL 7064 CONFIGL 7064 CONFIGL 7006 CONFIGL 7006 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 8100 CONFIGL 6016 CONN ID 6016 CONN ID 6017 CONN OI 6018 CONFIGL 5038 CONTROL 5708 CONTROL 5708 CONTROL 5707 CONTRAL 6072	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WYE DELTA, WHE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 6015 CONFIGL 7062 CONFIGL 7066 CONFIGL 7006 CONFIGL 7008 CONFIGL 8790 CONFIG 8790 CONFIG 8790 CONFIG 8790 CONFIG 6011 COND 6012 COND 6012 COND 6012 CONT 6012	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WYE DELTA, WHE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6015 CONFIG 7062 CONFIG 7062 CONFIG 7006 CONFIG 7006 CONFIG 7008 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 8810 CONFIG 6015 CONN 01 6017 CONN 01 6017 CONN 01 6018 CONFIG 6019 CONFIG 7148 CONFIG 6020 CONFIG 6021 CONFIG	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE D	ALN	KVA	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 7062 CONFIGI 7062 CONFIGI 7066 CONFIGI 7060 CONFIGI 8100 CONFIGI 8100 CONFIGI 8100 CONFIGI 8100 CONFIGI 8100 CONFIGI 6010 CONTIN 6010 CONTIN 6010 CONTIN 6010 CONTIN 6011 COND II 6010 CONTIN 6011 COND II 6012 CONTIN 6012 CONTIN 6012 CONTIN 5033 CONTIN 5033 CONTIN 5070 CONTIN 5070 CONTIN 5070 CONTIN 6072 CONTIN 6	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Confegration Protocol DELTA, WTE DELTA, WTE DE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 7008 CONFIGL 8790 CONFA 6091 CONID 6016 CONN II 6017 CONID 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 6020 CONT 6021 CONT 602	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WYE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6015 CONFG 7062 CONFIG 7062 CONFIG 7060 CONFIG 7006 CONFIG 7000 CONFIG 8810 CONFIN 8810 CONFIN 8810 CONFIN 6910 CONFIN 6010 CONFIN 6011 CONN 01 6018 CONNEC 6019 CONT 6018 CONNEC 6019 CONT 5833 CONFIN 6012 CONT 5833 CONFIN 6012 CONT 5032 CONT 50	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE D	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 CONT U 6014 COND U 6014 COND U 7062 CONFIG 7062 CONFIG 7064 CONFIG 7066 CONFIG 7060 CONFIG 8100 CONFIG 8100 CONFIG 8100 CONFIG 8100 CONFIG 8100 CONFIG 6010 CONFIG 6010 CONT 6011 CONN U 6011 CONN U 6011 CONN U 6011 CONN U 6012 CONFIG 6019 CONFIG 6019 CONFIG 6019 CONFIG 6019 CONFIG 6019 CONFIG 6019 CONFIG 6019 CONFIG 6019 CONT 6010 CONFIG 6019 CONT 6010 C	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Confersurg Unit Serial Number Configuration Protocol DELTA, WTE Confired Space Confired Value Location CONID Connection Inlet Size Connection Outlet Size Connection Outlet Size Connection Outlet Size Construction Naterial Construction Naterial Construction Section CONSTRUCTION INSERCTION TYPE Consumer VA-Continuous KW-Continuous KW-Continuous Contract Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 6015 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 8700 CONFIGL 8700 CONFIGL 8700 CONFIGL 8700 CONFIGL 6011 CONI 0I 6012 CONT 6012 CONT 6012 CONT 6013 CONT 6012 CONT 6	IGY MGT ISK BY IGY MGT ISK BY	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WVE Confined Space Confired Space Confired Space Confired Space Connection Unit Size Construction Naterial Construction Space Construction Contractor ID Construction Contractor ID Construction Contractor ID Contract Number Contract Number Contract Number Contract Number Contract Number Contract Number Contract Space Contract Conte Contel Contract Contel Contege Contract Number Contract Space Contract Contel Contege Contract Number Contract Space Contege Contract Number Contract Space Contege Contract Number Contract Space Contege Conte	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6015 CONFIG 7062 CONFIG 7062 CONFIG 7006 CONFIG 7006 CONFIG 7000 CONFIG 8810 CONFIN 8810 CONFIN 8970 CONFIA 6991 CONID 6016 CONN IN 6017 CONN OI 6018 CONFIA 6017 CONN OI 6018 CONFIA 6017 CONN OI 6018 CONFIA 6017 CONTON 5833 CONFIA 6012 CONST 6142 CONST 614	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condino, Nisk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WTE DELTA, WTE DE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	
6011 CON NRC 6012 COND NR 6013 COND UI 6014 COND UI 6014 COND UI 6014 COND UI 6015 CONFIGL 7006 CONFIGL 7006 CONFIGL 7008 CONFIGL 8700 CONFIGL 8700 CONFIGL 8700 CONFIGL 8700 CONFIGL 6011 CONI 0I 6012 CONT 6012 CONT 6012 CONT 6013 CONT 6012 CONT 6	IGY MGT ISK BY I	Connected to Energy Mgmt Sys Condinion/Risk Assessed By Condensing Unit Serial Number Configuration Protocol DELTA, WVE Confined Space Confired Space Confired Space Confired Space Connection Unit Size Construction Naterial Construction Space Construction Contractor ID Construction Contractor ID Construction Contractor ID Contract Number Contract Number Contract Number Contract Number Contract Number Contract Number Contract Space Contract Conte Contel Contract Contel Contege Contract Number Contract Space Contract Contel Contege Contract Number Contract Space Contege Contract Number Contract Space Contege Contract Number Contract Space Contege Conte	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW	YES/NO	

6027 COOLING	Cooling	ALN			
9776 COOLING CLASS	COOLING CLASS	ALN			
5617 COOLING TYPE	Cooling Type/Method	ALN			
6028 COOLNG CPCTY	Cooling Capacity	ALN			
6029 COOLNT CPCTY	Engine Coolant Capacity	ALN			
5993 CO-PRC COM M	Co-Processor Comm Module	ALN			
5685 COPROCE MOD	Co-Processor Module	ALN			
5882 CORECOIL		ALN			
6161 CORROSION	Corrosion Remarks	ALN			
10036 COUNTY	The county of location.	ALN			
6215 COUPLING	COUPLING	ALN			
6030 COUPLING SIZ	Coupling Size	ALN			
6031 COUPLING TYP	Coupling Type	ALN			
8946 CPU FAMILY		ALN			
5673 CPU PART	CPU Part No.	ALN			
6032 CPU PT NO	CPU Part Number	ALN			
8942 CPU SPEED	OPERATING SPEED OF THE CPU	ALN			
9608 CRANE CAPACITY	Crane Load Capacity	ALN	LB		
6033 CRANE TYPE	Crane Type	ALN		CRANE TYPE	
9630 CRAWLER MFG	Crawler Manufacture	ALN			
9632 CRAWLER MODEL	Crawler Model	ALN			
9634 CRAWLER SER #	Crawler Serial Number	ALN			
5479 CRITCODE	CRITICALITY	ALN			
7658 CRONTASK	Interface Associated Cron Task	ALN			
6623 CROSSARM	Number of crossarms	ALN			
9364 CROSSBORE_TYPE	CROSSBORE_TYPE	ALN		CROSSBORE_TYPE	
9862 CT - RATIO	CT - Ratio	ALN			
5751 CT RATIO	CT RATIO	NUMERIC			
10466 CT RATIO	CT RATIO	ALN			
6034 CTL TRANS SZ	Control Transfer Size	ALN			
5625 CTRL TRNS SZ	Control Transfer Size	ALN			
6035 CTRL VOLT	Control Voltage	ALN			
6036 CTRLLR MFG	Controller Manufacturer	ALN			
6037 CTRLLR MODEL	Controller Model	ALN			
6038 CTRLLR SER	Controller Serial Number	ALN			
6039 CTU MFG	CTU Manufacturer	ALN			
6040 CTU MODEL	CTU Model Number	ALN			
6041 CTU SERIAL	CTU Serial Number	ALN			
6042 CTU VERSION	CTU Version	ALN			
5560 CUL GIS ID	Culvert GIS Indentification	ALN			
5546 CULV #		NUMERIC			
5566 CULV ID	Culvert Identification	ALN			
5565 CULV NUM	Culvert Number	ALN			
8936 CURRENT DIFFERENTIAL INPUTS		ALN			
9184 CURRENT RANGE	CT CURRENT RANGE	ALN			
5656 CURVE DELAY	Delay Time Curve	ALN			
7996 CUSTOMER	Customer	ALN			
8404 CUSTOMER ADDRESS	Customer Address	ALN			
9068 CUSTOMER ID	Customer ID	ALN			
8402 CUSTOMER NAME	Customer Name	ALN			
8422 CUSTOMER PHONE NUMBER	Customer Phone Numner	ALN			
10468 CUSTOMER ID	Customer ID	ALN			
6624 CUTOUT	Cutout	ALN			
6624 CUTOUT 6043 CUTTER	Cutout Cutter	ALN ALN			
6043 CUTTER 5590 CYCLE	Cutter Cycle	ALN ALN			
6043 CUTTER	Cutter	ALN			
6043 CUTTER 5590 CYCLE 6044 (YCLE COUNT 6045 CYCLE COUNTR	Cutter Cycle	ALN ALN ALN ALN			
6043 CUTTER 5590 CYCLE 6044 CYCLE COUNT	Cutter Cycle Cycle Count	ALN ALN ALN			
6043 CUTTER 5590 CYCLE 6044 (YCLE COUNT 6045 CYCLE COUNTR	Cutter Cycle Cycle Count Cycle Counter	ALN ALN ALN ALN			
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6043 CUTTER 5590 CYCLE 6044 CYCLE COUNT 6045 CYCLE COUNTR 6046 DAMP MTR MOL 6627 DAMP MTR MO 6629 DAMP MTR NO 6046 DATE MFG 6249 DATE REC 6345 DATE SET 5947 DATE SURV 9028 DAYS OF STORAGE 7606 BECOMPONENT 7620 DECOMPONENT 7621 DE MAPS 5100 C AMPS 5101 DC AMPS 5102 DE MPIN 6630 DC 5510 DC AMPS 5102 DE MAPS 5103 DC MAPS 5104 C WANCE 5631 DC NA	Cutter Cycle Cycle Count Cycle Counter Damper Motors Model Damper Motors Manufacturer Date Installed Date Installed Date St Date Soft Date Soft Date St Date Onfiguration Component DBMS for Change DC DC DCA DCA DCA DCA Vear This Pipe Was/Will Be Replaced or Abandoned Dela or Wye Department # and Department Name Pipe Depth Transport End Depth Transport End Depth Description STC,RTU,DATA,COMM,OTHER Descant Has all le cycle? YN Brand of Descinat Descinat Descinat Descinat Has all le cycle? YN Brand of Descinat	ALN	VOLTS VOLTS	ITDBMS	
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6043 CUTTER 5590 CYCLE 6044 CYCLE COUNT 6045 CYCLE COUNTR 6046 DAMP MTR MOL 6627 DAMP MTR MG 6628 DAMP MTR NO 6629 DAMP R TYPE 6020 DATE 9084 DATE INSTALLED 5841 DATE SET 5942 DATE REC 6429 DATE REC 6434 DATE SET 9028 DAYS OF STORAGE 7605 BECOMPONENT 7605 DECOMPONENT 7620 DECOMPONENT 7622 DEMS 6630 DC 5510 DC AMPS 7732 DEMON 7732 DEMON 6630 DC 5510 DC AMPS 7732 DEMON 7732 DEMON 6631 DC A 7970 DECOM 6631 DC A 7970 <t< td=""><td>Cutter Cycle Cycle Counter Damper Motors Model Damper Motors Mumber of Motors Damper Motors Number of Motors Damper Motors Number of Motors Damper Motors Manufacture In Service Date Date of Manufacture In Service Date Date of Manufacture Date of Strope</td><td>ALN ALN ALN</td><td>VOLTS VOLTS</td><td>ITDBMS</td><td></td></t<>	Cutter Cycle Cycle Counter Damper Motors Model Damper Motors Mumber of Motors Damper Motors Number of Motors Damper Motors Number of Motors Damper Motors Manufacture In Service Date Date of Manufacture In Service Date Date of Manufacture Date of Strope	ALN	VOLTS VOLTS	ITDBMS	

6638 DIFF SPEED	Differential Speed	ALN			
6639 DIFFUSR CPC	Diffuser Capacity	ALN			
6640 DIFFUSR MATL	Diffuser Material	ALN			
8902 DIGITAL		ALN		YES/NO	
8924 DIGITAL INPUTS		ALN			
8926 DIGITAL OUTPUTS	THE NUMBER OF DIGITAL OUTPUTS	ALN			
6641 DIM (H,W,D)	Dimensions (H X W X D)	ALN			
5607 DIMENSIONS	Dimensions- LxWxH		INCHES		
7736 DIMENTIONS INCHES	HXDXW		INCHES		
6642 DIR OF MVMT	Direction of Movement	ALN			
5480 DIRECT	DIRECTIONS	ALN			
6643 DISC MATL	Disc Material	ALN			
5578 DISC TYPE	Disc Type	ALN			
6157 DISC.	Disc.	ALN			
5577 DISC. MAT	Disc Material	ALN			
6134 DISCHARGE S	Discharge Size	ALN			
6644 DISCHARGE SZ	Discharge Size	ALN			
10472 DISCONNECT CAPABLE	Disconnect Capable	ALN			
8215 DISCRIPTION		ALN			
5723 DISPLACEMENT	Displacement	ALN			
6645 DISPLY DAMPN	Display Dampening	ALN			
5473 DIST1	DISTANCE 1	ALN			
5476 DIST2	DISTANCE 2	ALN			
5804 DISTRICT	Supervisor District	ALN		DISTRICT	
5760 DMAND INTRVL	Interval lenght	ALN	MINUTES		
5667 DO CAT #	Digital Output Catalog No.	ALN			
7966 DOC_HYPERLINK	Document Hyperlink	ALN			
7506 DOOR OR COVER TYPE	HINGE DOOR,LOCKABLE,SCREW COVER,OTHER	ALN			
6646 DOOR TYPE	Type of Door	ALN			
5822 DOWN. INVERT	Downstream Invert of Pipe	ALN			
5474 DR1	DIRECTION 1	ALN			
5477 DR2	DIRECTION 2	ALN			
6647 DRAIN BASIN	Drainage Basin	ALN			
6648 DRAIN IN VLT	Has Drain in Vault	ALN		YES/NO	
9998 DRAIN LENGTH	Drain Length	NUMERIC	FT		
LOOOD DRAIN WIDTH	Drain Width	NUMERIC			
7122 DRAWING		ALN			
7122 DRAWING 7152 DRAWING	Drawing Number				
6649 DRIV SD BRNG		ALN			
	Drive Side Bearing				
6136 DRIVE BELT	Drive Belt Meter Drive By Drive	ALN			
5643 DRIVE TO	Motor Driven By Drive	ALN			
6174 DRIVE TYPE	DRIVE TYPE	ALN			
6650 DRIVEN SHEAV	Driven Sheave	ALN			
6651 DRNKNG FOUNT	Has Drinking Fountain(s) Y/N	ALN		YES/NO	
6652 DRV END BR N	Drive End Brg Number	ALN			
6653 DRVE GR MATL	Drive Gear Material	ALN			
6654 DRYER TYPE	Dryer Type	ALN		DRYER TYPE	
6655 DSCHRG PRSSR	Discharge Pressure	ALN			
6656 DSGN WND SPD	Design Wind Speed	ALN			
6657 DUCT BANK TY	Duct Bank Type	ALN			
6658 DUCT LENGTH	Duct Length	ALN			
	Duct Length	ALN ALN			
6658 DUCT LENGTH					
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE	Duct Length Duct Material Duct Size	ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SZE 6661 DUCT TYPE	Duct Length Duct Material Duct Size Duct Type	ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT SIZE 6631 DUCT TYPE 6232 DUTY	Duct Length Duct Material Duct Size Duct Type DUTY	ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUTY 6093 DWG#	Duct length Duct Material Duct Size Duct Type DUTY DWG#	ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUCT 6033 DWG# 8144 E RESPONDER	Duct Length Duct Material Duct Size Duct Type DuTY DUTY DWG# Emergency Responder	ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUTY 6093 DWG# 8144 ERESPONDER 6094 EAMPS	Duct Length Duct Xhatrial Duct Size Duct Type DUTY DUTY Emergency Responder EAMPS	ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUCT 6033 DWG# 8144 E RESPONDER	Duct Length Duct Material Duct Size Duct Size Duct Type DUTY DUTY DWG# Emergency Responder EAMPS Efficiency	ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUTY 6039 DWC# 8144 E RESPONDER 6034 EAMPS 6034 EREIONCY 6035 EFFINE	Duct Length Duct Material Duct Size Duct Type Duct Yive DUTY DUTY DWG# Emergency Responder EAMPS EFficiency EFRME	ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUTY 6033 DWG# 844 E RESPONDER 6094 EAMPS 6662 EFFICIENCY 6095 EFRME 6096 EHPWR	Duct Length Duct Xerial Duct Size Duct Type Duct Type DUTY Emergency Responder EAMPS Efficiency EFRAVE EHPWR	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT		
6658 DUCT LENGTH 6659 DUCT XATL 6660 DUCT SZE 6661 DUCT SZE 6623 DUCT TYPE 6232 DUTY 6039 DWG/H 8144 E RESPONDER 6039 EAMPS 6034 EAMPS 6034 EAMPS 6035 EHFINE 6036 EHFINE 6036 EHFINE 6036 EHFINE 6036 EHFINE	Duct Length Duct Material Duct Size Duct Size Duct Yipe Dury Dury Emergency Responder EAMPS Efficiency EFRME EFRME ELPPWR Etertoscan Inspection Measurement	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT		
6658 DUCT LENGTH 6659 DUCT WATL 6660 DUCT SZE 6661 DUCT TYPE 6232 DUTY 6039 DWG# 8144 E RESPONDER 6034 EAMPS 6034 EAMPS 6035 EFFINE 6035 EFFINE 6036 EHPWR 9322 EINSPM 9324 EINSPW	Duct Length Duct Size Duct Size Duct Size Duct Type DutTy DUTY DUTY Emergency Responder EAMPS Efficiency EFRME EFRME EFRVMR Electroscan Inspection Measurement Reason for Electroscan Footage Variance	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT		
6658 DUCT LENGTH 6659 DUCT MATL 6660 DUCT SIZE 6661 DUCT TYPE 6232 DUTY 6033 DWG# 844 E RESPONDER 6034 EAMPS 6034 EAMPS 6662 EFFICIENCY 6035 EFRME 6036 EHPWR 9322 EINSPM 9322 EINSPM	Duct Length Duct Material Duct Size Duct Size Duct Yipe Dury Dury Emergency Responder EAMPS Efficiency EFRME EFRME ELPPWR Etertoscan Inspection Measurement	ALN ALN ALN ALN ALN ALN ALN ALN ALN NUMERIC ALN ALN			
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6658 DUCT LENGTH 6659 DUCT XATL 6660 DUCT SZE 6661 DUCT TYPE 6232 DUCT YATL 6393 DWG# 8144 ERESPONDER 6034 EMAPS 6662 EFFICIENCY 6035 EFRME 6036 EINPVR 3322 EINSPV 3324 EINSPV 6210 UVARD # 7329 ELECONTYFE VOLUME 6636 ELECTRC AREA	Duct Length Duct Atterial Duct Size Duct Size Duct Type DutT DUTY DUTY Emergency Responder EAMPS Efficiency EFRME EFRME EFRVMR Electroscan Inspection Measurement Reason for Electroscan Footage Variance	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT STE 6660 DUCT STE 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 RESPONDER 6094 EAMPS 6095 EFFICIENCY 6095 EFFINE 6095 EFFINE 6095 EFINE 6095 EFINE 6095 ELECROLYFE VOLUME 6603 ELECTRC AREA 0022 ELICTRCAL	Duct length Duct Material Duct Size Duct Size Duct Type DutTy DuTY DUTY Electroscan Inspection Measurement Reason for Electroscan Footage Variance Fluct ARD # Electrical Area	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EAMPS 6652 EFFICIENCY 6036 EHFWE 6036 EHFINE 6037 BURSPN 3224 EINSPN 9324 ELECTRCA AREA 10232 ELECTRICAL 2024 ELECTRICAL	Duct Length Duct Size Duct Size Duct Size Duct Yipe DUTY DUTY DUTY DUG Emergency Responder EAMPS Efficiency EFRME EFFWR EFENEE EHPWR Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL.	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT WATL 6660 DUCT SYZE 6661 DUCT TYPE 6232 DUTY 6039 DWG# 8144 ERSPONDER 6034 EAMPS 6652 EFRICIENCY 6035 EFRME 6036 EFRONDER 9322 EINSPM 9322 EINSPM 9324 EINSPV 6230 UCTRCA REA 10232 ELECRICY FUOLUME 6636 ELECTRICAL 10234 ELECRICAL 10234 ELECTRICAL 10234 ELECTRICAL CONDUCTIVITY	Duct Length Duct Length Duct Size Duct Size Duct Type DUTY DUTY DUTY Emergency Responder EAMPS Efficiency EFRME EFRME EFPWR EELetroscan Footage Variance FUEL CARD # Electrical Area Electrical Area ELEV	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT STRE 6660 DUCT STRE 6661 DUCT TYPE 6232 DUTY 6393 DWGW 8144 RESPONDER 6394 EAMPS 6662 EFFICIENCY 6055 EFFANE 6056 ENPWR 9324 EINSPM 9324 EINSPM 9324 ELCTRCA AREA 0232 ELCTRCAL 0232 ELCTRCAL 0232 ELCTRCAL 0232 ELCTRCAL 0324 ELCTRCAL 0325 ELCTRCAL 0324 ELCTRCAL 035 ELCTRCAL	Duct Interial Duct Material Duct Size Duct Size Duct Size Duct Yipe DUTY DUTY DUTY Emergency Responder Emergency Responder Efficiency Efficiency Efficiency Efficiency Efficiency Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area Y/N, MAKE, MODEL. ELEV FT	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EAMPS 6652 EFFICIENCY 6036 EHFUR 8039 ENSPN 3224 EINSPN 3232 EINSPN 3242 ELCTRCA AREA 10232 ELCETRICAL 2024 ELCTRICAL 2025 ELEV 8682 ELEVATION 6664 ELEVATON	Duct Length Duct Length Duct Size Duct Size Duct Type DUTY DUTY DUTY DUTY Emergency Responder EAMPS Efficiency EFRME EFFWR EELetroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. ELEV FT ELevator Type Effective Elevator Type Elevat	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
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6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 ERSPONDER 6094 EAMPS 6062 EFRICIENCY 6055 EFRME 6056 EHVWR 9324 EINSPM 9324 EINSPM 9324 ELCTRCA AREA 0232 ELCTRCAL 0232 ELCTRCAL 0232 ELCTRCAL 0232 ELCTRCAL 0324 ELCTRCAL 0324 ELCTRCAL 0354 ELEVITON 6642 ELEVATION 6644 ELEVATION 6654 ELEVATION 6654 ELEVATION 6654 ELEVATION	Duct Length Duct Length Duct Size Duct Size Duct Size Duct Yppe DUTY DUTY DUTY DUTY Emergency Responder EAMPS Efficiency EFRWE EIPVWR EIectroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area Y/N, MAKE, MODEL. ELEV FT Elevator Type Eleva	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EAMPS 6652 EFICIENCY 6036 EHFWR 9324 EINSPN 9324 EINSPN 9324 ELORAL 6633 ELCTRCA REA 1023 ELCETRICAL 00354 ELCTRICAL 00354 ELCTRICAL 0037 ELEV 9828 ELEVATION 6664 ELEVATOR 8562 EMAIL 6665 EMAIL	Duct Length Duct Length Duct Size Duct Size Duct Size Duct Yipe DUTY DUTY DUTY Emergency Responder EAMPS Efficiency EFRME EFficiency EFRME Electroscan Inspection Measurement Reason for Electroscan Footage Variance FIUE LCARD # Electrical Area V/N, MAKE, MODEL. ELEV FT ELEV ELEV ELEV ELEV ELEV ELEV ELEV ELE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YE5/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUCT YARD 6242 DUTY 6039 DWG# 8144 ERSPONDER 6034 EAMPS 6045 EFRICIENCY 6035 FFRME 6036 EHPUR 9322 EINSPM 9324 EINSPM 9325 EINSPM 9326 EINSPM	Duct Length Duct Length Duct Size Duct Size Duct Type DUTY DUTY DUTY DUGM Emergency Responder EAMPS Efficiency EFRME EFICHORE Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electroical Area Electrical Area Elec	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DWG#P 8144 ERSPONDER 6094 EAMPS 6054 EFRICIENCY 6055 EFRME 6056 EHPWR 9324 EINSPM 9324 EINSPM 9324 ELCTRCA AREA 10232 ELCTRCA 10232 ELCTRCA 10232 ELCTRCA 10232 ELCTRCA 10232 ELCTRCA 10234 ELCTRCA 10245 ELCTRCA 10254 ELCTRCA 10254 ELCTRCA 10354 ELCTRCA 10354 ELCTRCA 10354 ELCTRCA 10354 ELCTRCA 10355 ELCTRCA 10356 ELCTRCA 10357 ELCTRCA 10358 <td< td=""><td>Duct Length Duct Atterial Duct Size Duct Size Duct Size Duct Ype DurY DurY DurY DurY DurY Emergency Responder EAMPS Efficiency EFRME Eieutroscan inspection Measurement Resson for Electroscan Footage Variance FUEL CARD # Eieutrical Area V/N, MAKE, MODEL. EIEU EIEU EIEU EIEU EIEU EIEU EIEU EIE</td><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YE5/NO</td><td></td></td<>	Duct Length Duct Atterial Duct Size Duct Size Duct Size Duct Ype DurY DurY DurY DurY DurY Emergency Responder EAMPS Efficiency EFRME Eieutroscan inspection Measurement Resson for Electroscan Footage Variance FUEL CARD # Eieutrical Area V/N, MAKE, MODEL. EIEU EIEU EIEU EIEU EIEU EIEU EIEU EIE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YE5/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EASPONDER 6034 EASPONDER 6035 DWG# 6036 EFFICIENCY 6037 BURNP 6036 EFFICIENCY 6037 SUMAD 9324 EINSPN 9324 EINSPN 9324 ELSPONDER 6639 ELCTRICAL 0232 ELECTRICAL 0234 ELECTRICAL 0235 ELEV 0368 ELEV 0370 ELEV 0384 ELEVICINO 0352 ELEV 0352 ELEV 0352 ELEV 0352 ELEV 0352 ELEV 0352 ELEV 0535 ENGT	Duct Length Duct Size Duct Type Duct Type Duct Type Duct Type Durt Y DURG# Emergency Responder EAMPS Efficiency ErKINE Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. Elevator Type Contact Email Address Emergency Stop Tested V/N Size Type of Enclosure Enclosure Trype	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YE5/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EAMPS 6035 DFMC# 6036 EHCITCY 6037 STRME 6036 EHCITCY 6037 STRME 6036 EHCITCY 6037 STRME 6036 EHCITCY 6037 ELICRICAL 6038 ELICTRCAREA 6032 ELICTRICAL CONDUCTIVITY 6036 ELICTRICAL CONDUCTIVITY 6037 ELICATION TYP 8626 ELICATION TYP 8626 EMAIL 6637 STATO 8848 EMULISION POLYMER CONNECTION 6239 ENCLI 6666 ENCLI TYPE 6667 ENCLOSURE	Duct Length Duct Length Duct Size Duct Size Duct Type DUTY DUTY DUTY Emergency Responder EAMPS Efficiency EFRME EFFINE EFFINE ELetroscan Footage Variance FUEL CARD # DUTY Electroscan Footage Variance Electrical Area V1N, MAKE, MODEL. ELEV FT Elevator Type Contact Email Address Emergency Stop Tested V/N EMOTR Size Type of Enclosure Enc	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 ERSPONDER 6094 EAMPS 6095 EHFWE 6056 EHFURCY 6057 EHME 6056 EHFWE 6057 EHME 6058 EHFWE 6059 SUMPW 9324 EINSPM 9324 EINSPM 9324 EINSPM 9324 ELECROLYTE VOLUME 6663 ELEVATOR TWP 8632 ELEVATION 6647 ELEVATION 6647 ELEVATION 6655 MGS TP TSTD 6056 EMOST TP STD 6058 EMOUSINPELIANE 6464 ELEVATOR TYPE 6454 ELEVATION 6555 EMGST TP STD 6598 EMOUSINP OLYME CONNECTION	Duct Length Duct Size Duct Size Duct Type Duct Ype Dury DWG# Emergency Responder EAMPS Efficiency Errore Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # V/N, MAKE, MODEL. Electroscan Type Emergency Stop Texted V/N Emergency Stop Texted V/N Emergency Stop Texted V/N Endosure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EASTPACE 6035 DWG# 8144 ERSPONDER 6034 EASTPACE 6035 ERSPONDER 6036 ELFICIENCY 6036 ELFICIENCY 6037 ELENSPN 9324 EINSPN 9322 EINSPN 9324 EINSPN 9324 EINSPN 9324 EUNAD # 93792 ELECALOYTE VOLUME 6638 ELCTRCAL CONDUCTIVITY 6037 ELEV 6382 ELEVATION 6644 ELEVATOR 6652 EMG STP TSTD 6656 ENCLOSURE 6656 ENCLOSURE 6656 ENCLOSURE 6656 ENCLOSURE	Duct Length Duct Size Duct Type Duct Type Duct Type Durt Y DWG# Emergency Responder EAMPS Efficiency Erkmk Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # V/N, MAKE, MODEL. Elevator Type Contact Email Address Emergency Stop Tested V/N Size Type of Enclosure Enclosure Type	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YE5/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DUGH 8144 RESPONDER 6394 EAMPS 6305 EFFICIENCY 6305 EFFINE 6305 EFFINE 6305 EFFINE 6305 EFFINE 6305 ELECRICY 6310 BUSH 7322 ELECRICA 63322 ELECRICAREA 02324 ELECTRICA 0325 ELECRICAREA 02324 ELECTRICA 0325 ELECRICAL 0326 ELEVATION 6664 ELEVATION 6654 ELEVATION 6655 ELEVATION 6656 ELEVATION 6657 ELEVATION 6582 ENAIL 6583 ENOTR 844 EMULSION POLYMER CONNECTION <td< td=""><td>Duct Length Duct Size Duct Size Duct Type Duct Ype Dury DWG# Emergency Responder EAMPS Efficiency Errore Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # V/N, MAKE, MODEL. Electroscan Type Emergency Stop Texted V/N Emergency Stop Texted V/N Emergency Stop Texted V/N Endosure Endosure</td><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YES/NO</td><td></td></td<>	Duct Length Duct Size Duct Size Duct Type Duct Ype Dury DWG# Emergency Responder EAMPS Efficiency Errore Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # V/N, MAKE, MODEL. Electroscan Type Emergency Stop Texted V/N Emergency Stop Texted V/N Emergency Stop Texted V/N Endosure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DUGT TYPE 6332 DUTY 6333 DUGT TYPE 6332 DUTY 6333 DUGW# 8144 ERSPONDER 6034 EMPS 6052 EFFICIENCY 6055 EFFINE 6056 EHSPN 3224 EINSPN 3232 EINSPN 3232 EINSPN 3232 EINSPN 3232 ELSCOLYTE VOLUME 6663 ELCOLYTE VOLUME 6664 ELEVATON 6667 ELV 8023 ELVATON 6664 ELEVATON TYP 852 ELVATON 6655 ENG ST P STD 6635 ENG ST P STD 6638 ENCOLST PE 6646 ENULSION POLYMER CONNECTION	Duct Length Duct Size Duct Type Duct Type Dury DWG# Emergency Responder EAMPS Efficiency EFRME Electroscan Inspection Measurement Reason for Electroscan Footage Variance Y/N, MAKE, MODEL Electrical Area V/N, MAKE, MODEL Elevator Type Elevator Type Emergency Stop Tested V/N EMOTR Size Contact Email Address Emergency Stop Tested V/N Encoder Encoder </td <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>YES/NO</td> <td></td>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6394 EASPONDER 6395 ERSPONDER 6394 EASPONDER 6395 ERSPONDER 6396 EHFURCY 6392 EINSPN 9324 EINSPN <	Duct Length Duct Size Duct Type Duct Type Duct Type Durt Y DWG# Emergency Responder EAMPS Efficiency Erkerter Erkerter Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. ELEV FT Elevator Type Contact Email Address Emergency Stop Tested V/N Size Type of Enclosure Enclosure Type Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure <t< td=""><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YES/NO</td><td></td></t<>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DUGW 8144 RESPONDER 6394 EAMPS 6362 EFFICIENCY 6305 EFMRE 6305 EFMRE 6305 EFMRE 6305 EFMRE 6305 EFMRE 6321 ELURARD # 7792 ELECROLYTE VOLUME 6332 ELUTRCA REA 10232 ELECTRCAL 10232 ELECTRCAL 10232 ELECTRCAL 10234 ELECTRCAL 10235 ELECTRCAL 10236 ELEVATOR TYP 10356 ELEVATOR TYP 10356 ELEVATOR TYP 10356 ELEVATOR TYP 10358 ELEVATOR TYP 10358 ELEVATOR TYP 10358 ELEVATOR TYP 10350 FLOWARE CONNECTION	Duct Interial Duct Size Duct Type Duct Type DUTY DWG# Emergency Responder EAMPS Efficiency Efficiency Efficiency Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. ELEV FT Eleval Area Contact Email Address Emergency Stop Tested V/N EMOTA Size Type of Enclosure Enclosure <tr< td=""><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YES/NO</td><td></td></tr<>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 ERSPONDER 6094 EAMPS 6052 EFICIENCY 6058 EMORTONER 6059 EHWR 9324 EINSPN 9324 EINSPN 9324 EINSPN 9324 ELCTRCAREA 00323 ELCTRCAREA 00324 ELECTRCAL 00324 ELECTRCAL 00324 ELECTRCAL 00352 ELEV 0037 ELEV 0037 ELEV 0038 EMOTR 0038 EMOTR 0038 EMOTR 0039 EMOTR 0039 EMOTR 0039 EMOTR 0039 EMOTR 0039 EMOTR 0394 EMOTR	Duct Length Duct Size Duct Size Duct Type Dury DUTY DWG# Emergency Responder EAMPS Efficiency EFRME Electroscan Inspection Measurement Reason for Electroscan Footage Variance Y/N, MAKE, MODEL. Electroid Area V/N, MAKE, MODEL. Electroscan Footage Variance Y/N, MAKE, MODEL. Electroscan Footage Variance Fr Electroscan Footage Variance Y/N, MAKE, MODEL. Electroscan Footage Variance Fr Electroscan Footage Variance Fr Electroscan Footage Variance Endosure Endosure Type Endosure Type Encoder E	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6394 EAMPS 6305 EFFICIENCY 6306 EHFURCY 6307 EHFWR 9324 EINSPN 9322 EINSPN 9324 EINSPN 9322 EINSPN 9324 EINSPN 9325 EINSPN 9326 EINSPN 9327 EINSPN 9328 EINSPN 9324 EINSPN 9325 EINSPN 9326 EINSPN 9327 EINSPN 9328 EINSPN 9329 EINSPN 9321 EINSPN 9322 EINSPN 9324 EINSPN 9325 EINSPN 9326 EINSPN	Duct Length Duct Size Duct Type Duct Size Emergency Responder EAMPS Efficiency Erkner Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # V/N, MAKE, MODEL. Elevator Type Contact Email Address Emergency Stop Tested Y/N Size Type of Enclosure Encodure Engine Model	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6661 DUCT TYPE 6623 DUCT TYPE 6232 DUTY 6933 DUGW 8144 ERSPONDER 6034 EAMPS 6045 EFFICIENCY 6055 EFMNE 6056 EHVPNR 9324 EINSPN 9324 EINSPN 9324 EINSPN 9324 ELCRCAREA 0055 EFMVE 6056 EHVSPN 9324 ELCRCAREA 0025 ELCUTRCAREA 0025 ELCUTRCA 0025 ELCUT	Duct Interial Duct Size Duct Type Duct Yype DurtY DWG# DurtY DWG# Emergency Responder EAMPS Efficiency Efficiency Efficiency Efficiency Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAEK, MODEL. ELEV FT Electrical Area Viny MAEK, MODEL. ELEV FT Elevator Type Contact Email Address Emergency Stop Tested V/N Emorgency Stop Tested V/N Enclosure Enclosure Enclosure Enclosure Enclosure Enclosure END PLAY Interface Ind Point Engine Model Number Engine Model Number Engine Model Number Engine Strial Number Engine Strial Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 ERSPONDER 6394 EAMPS 6362 EFFICIENCY 6395 BWG# 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 ELCTRCAREA 10232 ELCTRCAREA 10232 ELCTRCAL 10232 ELCTRCAL 10232 ELCTRCAL 10232 ELCTRCAL 10232 ELCTRCAL 10232 ELCTRCAL 10324 ELCTRCAL 10325 ELMUTENT 10324 ELCTRCAL 10324 ELCTRCAL 10324 ELCTRCAL 10324 ELCTRCAL 10325 ELMUTENT 10335	Duct Length Duct Size Duct Size Duct Yipe Dury DURY DWG# Emergency Responder EAMPS Efficiency EFRME Electroscan Inspection Measurement Reason for Electroscan Footage Variance Y/N, MAKE, MODEL Electrical Area V/N, MAKE, MODEL Electroscan Footage Variance Y/N, MAKE, MODEL Electroscan Footage Variance Y/N Electroscan Footage Variance Footage Variance Electroscan Footage Variance Endosur	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6034 EMSP 6054 EMSP 6055 EFRICIENCY 6056 EHFUR 6057 EFRNE 6058 EMSP 9324 IENSPN 9322 EINSPN 9324 EINSPN 9	Duct Length Duct Size Duct Type Duct Type Duct Type DUTY DUWG# Emergency Responder EAMPS Efficiency Erkner Electroscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # V/N, MAKE, MODEL. Elevator Type Contact Email Address Emergency Stop Tested V/N Size Type of Enclosure Enclosure Type Enclosure Type Enclosure Type Enclosure Model Enclosure Type Enclosure Type <t< td=""><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YES/NO</td><td></td></t<>	ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6661 DUCT TYPE 6620 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 RESPONDER 6094 EAMPS 6094 EAMPS 6095 EFMNE 6095 EFMSPT 7792 ELECRCITE VOLUME 6663 ELEVATOR TP 8097 ELECRICAL 8027 ELEVATON 6641 ELEVATOR TYP 8282 ELEVATON 6852 ELEVATON 6852 ELEVATON 6852 ELEVATON 6852 ELEVATON	Duct Length Duct Size Duct Size Duct Ype Duct Ype Durt Y DWG# Durt Y DWG# Emergency Responder EAMPS Efficiency Error Earth E EHPWR Electroscan Inspection Measurement Resson for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. Electror Type Contact Email Address Emergency Stop Tested V/N Emergency Stop Tested V/N Endosure Engine Model Engine Model Engine Model Engine Model Engine KMAKE Engine KMOEL ENGINE KMXE ENGINE KMOEL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DUGT TYPE 6232 DUTY 6393 DUGW# 8144 ERSPONDER 6394 EAMPS 6352 EFICIENCY 6395 EHWR 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 ELCTRCA REA 1023 ELCTRCA REA 10232 ELCTRCA A 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10325 ELNUTENT 10345	Duct Length Duct Size Duct Type Duct Size Energency Responder EAMPS Efficiency EFRME Electroscan Inspection Measurement Reason for Electroscan Footage Variance FIEL CARD # V/N, MAKE, MODEL. Electroical Area V/N, MAKE, MODEL. Electroscan Footage Variance Y/N, MAKE, MODEL. Electroscan Social Soci	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YE5/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6393 DWG# 8144 ERSPONDER 6393 DWG# 8144 ERSPONDER 6394 EAMPS 6352 EFICIENCY 6395 EHWR 9322 EINSPN 9322 EINSPN 9322 EINSPN 9324 EINSPN 9325 EINSPN 9326 ELCTRCA 6331 ELCTRCA 6322 ELVARD 6332 ELCTRCA 6345 ELCTRCA 6352 ELCUNTE 6352 ELVATON 6352 ELVATON 6352 ELVATON 6352 ELVATON 6352 ELVATON 6352 ELVATON <	Duct Length Duct Size Duct Type Emergency Responder EAMPS Efficiency Efficiency Effort State Total State St	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DUGT TYPE 6232 DUTY 6393 DUGW# 8144 ERSPONDER 6394 EAMPS 6352 EFICIENCY 6395 EHWR 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 EINSPN 3924 ELCTRCA REA 1023 ELCTRCA REA 10232 ELCTRCA A 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10232 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10324 ELCTRCA. 10325 ELNUTENT 10345	Duct Length Duct Size Duct Type Duct Type Duct Word Duct Size Energency Responder EAMPS Efficiency Erkthe Eivertorscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. Electrical Area V/N, MAKE, MODEL. Electroscan Footage Variance FT Electroscan Footage Variance FV Electroscan Footage Variance FV Elevator Type Contact Email Address Emergency Stop Tested V/N Emergency Stop Tested V/N Endosure Encoder Encoder Encoder Encoder Engine Model Engine Model	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6333 DWG# 8144 ERSPONDER 6393 DWG# 8144 ERSPONDER 6393 DWG# 8144 ERSPONDER 6394 EAMPS 6352 EFICIENCY 6395 EHWR 9322 EINSPN 9322 EINSPN 9322 EINSPN 9324 EINSPN 9325 EINSPN 9326 ELCTRCA 6331 ELCTRCA 6322 ELVARD 6332 ELCTRCA 6345 ELCTRCA 6352 ELCUNTE 6352 ELVATON 6352 ELVATON 6352 ELVATON 6352 ELVATON 6352 ELVATON 6352 ELVATON <	Duct Length Duct Size Duct Type Emergency Responder EAMPS Efficiency Efficiency Effort State Total State St	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6661 DUCT TYPE 6620 DUCT STR 6641 DUCT TYPE 6232 DUTY 6393 DWG# 8144 RESPONDER 6394 EAMPS 6394 EAMPS 6395 EFME 6305 EFMP 6305 EFME 6305 EFME 6305 EFME 6305 EFME 6305 EFME 6305 EFEME 63210 EFWARD 6332 ELECRCATE 7324 ELECRCATE 6332 ELECRCATE 6332 ELECRCAL 7324 ELECRCAL 6335 ELECRCAL 6336 ELECRCAL 6337 ELECRCAL 6338 ELEVATON 6348 ELEVATON 6358 ELEVATON 6358 ELEVATON	Duct Length Duct Size Duct Type Duct Type Duct Word Duct Size Energency Responder EAMPS Efficiency Erkthe Eivertorscan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. Electrical Area V/N, MAKE, MODEL. Electroscan Footage Variance FT Electroscan Footage Variance FV Electroscan Footage Variance FV Elevator Type Contact Email Address Emergency Stop Tested V/N Emergency Stop Tested V/N Endosure Encoder Encoder Encoder Encoder Engine Model Engine Model	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT SYRL 6660 DUCT SYRL 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 ERSPONDER 6394 EAMPS 6362 EFICIENCY 6395 BWG# 6392 EINSPN 3242 EINSPN 3232 EINSPN 3232 EINSPN 3232 EINSPN 3232 EINSPN 3242 EINSPN 3252 EINATICAL 6667 EINSPN 6668 ENDEND 6674 ELVATON 6685 ENOST STD	Duct Length Duct Size Duct Type Duct Type Durt Y DURY Eferrosan Reson For Destrement Reson For Electroscan Footage Variance FIELCARD # Electrical Area V/N, MAKE, MODEL Electrical Area FT Electroscan Footage Variance FY Electroscan Secon Endosure Type Endosure Type Encoder Encoder Encoder Encoder Engine Model	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STRI 6650 DUCT STRI 6232 DUTY 6333 DUGW# 8144 ERSPONDER 6395 EFFICIENCY 6305 EFFINE 6305 EFFINE 6305 EFFINE 6305 EFFINE 6305 EFFINE 63324 EINSPN 3324 EINSPN 3324 EINSPN 3324 ELCROLYTE VOLUME 6335 ELCROLYTE VOLUME 6335 ELCROLYTE VOLUME 6342 ELEVATON 6358 ELCROLYTE VOLUME 6359 ELCROLYTE VOLUME 6350 ELCROLYTE VOLUME 6352 ENAIL 6358 ELCATON 6358 ELCATON 6358 ELCROLYTE VOLUME	Duct Ingeh Duct Material Duct Size Duct Type Duct Type DUTY DWG# Demergency Responder Efficiency Efficiency Efficiency Efficiency Efficiency Electroscan Inspection Measurement Reason for Electroscan Footage Variance PELE CARD # Electrical Area V/N, MAKE, MODEL. ELEV FT Elevator Type Contact Email Address Emergency Stop Tested V/N EMOSTR Size Type of Enclosure Enclosure <t< td=""><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YES/NO</td><td></td></t<>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DUGW# 8144 ERSPONDER 6394 EAMPS 6305 ERSPONDER 6394 EAMPS 6305 EFFME 63322 EINSPM 3324 EINSPN 3324 EINSPN 3325 EINSPM 3324 EINSPN 3325 EINSPN 3324 EINSPN 3325 EINSPN 3326 EINSPN 3327 EINSPN 3328 EINSPN 3329 EINL 3332 EINSPN 3334 EINSPN 335	Duct Length Duct Size Duct Type Emergency Responder EAMPS Efficiency Errore Total Reson For Electroscan Footage Variance FIJEL CARD # Electroical Footage Variance V/N, MAKE, MODEL. Electroical Area V/N, MAKE, MODEL. Electroical Area Elevator Type Contact Email Address Emergency Stop Tested V/N Elevator Type Enclosure Encoder Encoder Encoder Encoder Encoder Engine Model Engine Scial Number Engine Model Engine Model Engine Model Engine Model Engine Model	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT SYRL 6660 DUCT SYRL 6661 DUCT TYPE 6232 DUTY 6393 DWG# 8144 ERSPONDER 6394 EAMPS 6362 EFICIENCY 6395 BWG# 6392 EINSPN 3242 EINSPN 3232 EINSPN 3232 EINSPN 3232 EINSPN 3232 EINSPN 3242 EINSPN 3252 EINAL 3264 EINDT 3274 EINSPN 3284 EINTIN 3295 EINCIN <	Duct Length Duct Size Duct Type Duct Type Durt Y Emergency Reponder Erkore Erkore Erkore U/N Karke, MODEL Electrical Area V/N, MAKE, MODEL. Electro Type Contact Email Address Emergency Stop Tested Y/N Endosure Type Endosure Type Endosure Type Endosure Type Endosure Type Endosure Endolont Engine Model Engine Model Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STR 6660 DUCT STR 6661 DUCT TYPE 6232 DUTY 6393 DUGW# 8144 ERSPONDER 6394 EAMPS 6305 ERSPONDER 6394 EAMPS 6305 EFFINE 6306 ELPYNR 3324 EINSPV 6332 ELCROLYE VOLUME 6332 ELCTRCA REA 10232 ELCTRCA 1033	Duct Length Duct Size Duct Type Duct Yype Durt Y Durt Y Durt Y Durt Y Durt Y Durt Size EAMPS Efficiency EFRAME Electrocan Inspection Measurement Reason for Electroscan Footage Variance FUEL CARD # Electrical Area V/N, MAKE, MODEL. ELEV FT Electroscan Footage Variance FVEL CARD # V/N, MAKE, MODEL. ELEV FT Electroscan Footage Variance FVEL CARD # V/N, MAKE, MODEL. ELEV FT Electroscan Footage Variance FUT Electroscan Footage Variance FUT Electroscan Footage Variance FT Electroscan Footage Variance FOOTA Size Endosure Endosure Endosure	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
6658 DUCT LENGTH 6659 DUCT STRE 6661 DUCT TYPE 6623 DUCT TYPE 6232 DUTY 6393 DUGW 8144 ERSPONDER 6394 EAMPS 6305 ERSPONDER 6394 EAMPS 6305 EFMUE 6312 ELCITICAL 7322 ELETRICAL CONDUCTIVITY 6322 ELCUTICAL 10254 ELECATICAL 10254 ELECATICAL 10254 ELEVATON 6326 EAAL 6331 ELCUTICAL 10254 ELEVATON 6326 EAAL 6332 ELCUTICAL 6332 ELCUTICAL 6333 EN	Duct Insterial Duct Size Duct Type Efficiency Efficiency Efficiency Efficiency Electroscan Inspection Measurement Reason for Electroscan Footage Variance PELE CARD # Electrical Area V/N. MAKE, MODEL. ELEV FT Elevator Type Contract Email Address Emergency Stop Tested V/N EMOTR Size Type of Enclosure Enclosure Type Enclosure Type Enclosure Type Enclosure Type Enclosure Type Enclosure Type Enclosure Enclosure Engine Model Engine Model Number Engine Model Number Engine Model Number Engine Sizial Number Engine Model Number Engine Model Number Engine Model Number Engine Model Number </td <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>YES/NO</td> <td></td>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	

7296 ENGINE YEAR	ENGINE YEAR	ALN			
6669 ENGN CYLINDR	Number of Cylinders	ALN			
6670 ENGN FUEL	Engine Fuel Type	ALN			
6671 ENGN FUEL CP	Fuel Capacity	ALN			
6672 ENGN HP	ENGINE HORSEPOWER	ALN			
6673 ENGN MFG	Engine Manufacturer	ALN			
6674 ENGN MODEL	Engine Model Number	ALN			
6675 ENGN NOISE	Noise Rating	ALN			
6676 ENGN SERIAL	ENGINE SERIAL NUMBER	ALN			
7652 ENTERPRSVC	Interface Enterprise Service	ALN			
6677 EQ DEL DATE	Equipment Delivery Date	ALN			
6678 EQ SOURCE	Equipment Source (Fed By)	ALN			
7986 EQP_ADDRESS_NUM	Location Where Lateral Exits Property - Number	ALN			
7990 EQP_ADDRESS_STREET	Location Where Lateral Exits Property - Street	ALN			
7784 EQUALIZATION CHARGE		ALN	VPC		
6679 EQUIP DESC	Equipment Description	ALN			
6680 EQUIP TYPE	Equipment Type	ALN			
6171 EQUIP. HEIGH	EQUIP. HEIGHT	ALN			
6172 EQUIP. WEIGH	EQUIP. WEIGHT	ALN			
5518 EQUIPMENT	name of equipment	ALN			
6068 EQUIPMENT CO		ALN			
	Equipment Cost				
6681 EQUIPMENT ID	Equipment ID	ALN			
6101 ERPM	ERPM	ALN			
6102 ESER#	ESER#	ALN			
6944 EST_VOLUME	Estimated Volume	ALN		EST_VOLUME	
6682 ESTABLISHMNT	Establishment	ALN			
5676 ETHERN CTRL	Ethernet Controller	ALN			
5677 ETHERN INTER	Ethernet Interface	ALN			
6683 ETHERNET CTL	Ethernet Controller	ALN			
	Ethernet Lontroller Ethernet Interface				
6684 ETHERNET INT	Luternet interfidte	ALN			
8910 ETHERNET PORTS		ALN			
6103 ETYPE	ETYPE	ALN			
6104 EVOLT	EVOLT	ALN			
6685 EXCITATION	Excitation	ALN			
5496 EXCITATION A	Excitation Amps	ALN			
5495 EXCITATION V	Excitation Volts	ALN			
5714 EXCITER TYPE	Exciter Type	ALN			
5686 EXPAN MEM	Expansion Memory Module	ALN			
5687 EXPAN MOD	Expansion Module	ALN			
6686 EXPANDER	Expander	ALN			
6687 EXT MATL	Exterior Material	ALN			
5842 EXT. FINISH	Exterior Finish Type	ALN			
7656 EXTSYS	Interface External Systemn	ALN			
6688 EYE WSH STN	Eye Wash Station	ALN			
9602 F W TANK CAPACITY	Fresh Water Tank Capacity	NUMERIC	GAI		
9824 FACILITY CODE	Facility Code	ALN			
10474 FACILITY CODE	Facility Code	ALN			
9902 FACILITY_CODE	Facility Code	ALN			
8302 FAMIS DIV/SECT	FAMIS DIV/SECTION	ALN		FAMIS DIV/SECTION	
	Fan Blade Material				
6689 FAN BLD MATL		ALN			
6690 FAN BLD PTCH	Fan Blade Pitch	ALN			
6690 FAN BLD PTCH	Fan Blade Pitch	ALN		FAN DRIVE	
6690 FAN BLD PTCH 6691 FAN DRIV TYP	Fan Blade Pitch Fan Drive Type	ALN ALN		FAN DRIVE	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIVE	Fan Blade Pitch Fan Drive Type FAN DRIVE	ALN ALN ALN		FAN DRIVE FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIVE 6693 FAN MOTOR	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor	ALN ALN ALN ALN			
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIVE 6693 FAN MOTOR 6694 FAN SENSOR	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN SENSOR	ALN ALN ALN ALN ALN			
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIVE 6693 FAN MOTOR 6694 FAN SENSOR 6695 FAN SIZE	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN SENSOR Fan Size	ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIV E 6693 FAN MOTOR 6694 FAN SENSOR 6695 FAN SIZE 6696 FAN TYPE	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN DRIVE Fan Motor FAN SENSOR Fan SENSOR Fan Step FAN TYPE	ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIV TYP 6693 FAN MOTOR 6694 FAN SENSOR 6695 FAN SIZE 6696 FAN TYPE 6697 FC TO FC LEN	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan Strive FAN SENSOR Fan Size FAN TYPE Length Face to Face	ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIV TYP 6693 FAN XENSOR 6693 FAN XENSOR 6695 FAN SZE 6696 FAN TYPE 6697 FC TO FC LEN 6698 FDS MFG 6699 FDS MODEL	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN DRIVE Fan Motor FAN SENSOR FAN SENSOR FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model	ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6680 FAN BLD PTCH 6691 FAN DRIV TYP 6693 FAN DRIV TYP 6693 FAN MOTOR 6694 FAN SCHSOR 6695 FAN SIZE 6695 FAN SIZE 6695 FCT OF CLEN 6698 FDS MICG 6699 FDS MODEL 5531 FED BY	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan Notor FAN SENSOR Fan Size FAN TYPE Length Face to Face Fiame Detection System Manufac Fiame Detection System Model Equipment Power Source	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIVE 6693 FAN MOTOR 6693 FAN SENSOR 6695 FAN SZE 6696 FAN TYPE 6699 FC TO FC LEN 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT	Fan Blade Pitch Fan Drive Type Fan Drive Type Fan Notor Fan StenSOR Fan Stee Fan Stee Fan Type Length Face to Face Flame Detection System Model Equipment Power Source Feed Compartment	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIV TYP 6693 FAN XENSOR 6693 FAN SENSOR 6695 FAN SZE 6696 FAN TYPE 6697 FC TO FC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED COMPRT	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan Stencom FAN DRIVE Fan Stencom Fan Stee FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Compartment	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6680 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIV VP 6693 FAN SCHOOR 6694 FAN SCHOOR 6695 FAN SIZE 6695 FAN SIZE 6697 FCT D FC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED COMPRT 6701 FEED FORTS 5502 FEEDS	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN DRIVE Fan Motor FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Ports MCC - Equip (Load)	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIVE 6693 FAN MOTOR 6693 FAN SENSOR 6693 FAN SZE 6696 FAN TYPE 6699 FC TO FC LEN 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS FANEL	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN Notor Fan Stenson FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeds Panel	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIV TYP 6693 FAN XENSOR 6694 FAN XENSOR 6695 FAN SZE 6697 FCT D FC LEN 6697 FCT D FC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6702 FENCE LENCTH	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan Stenson FAN DRIVE Fan Stenson Fan Steve Fan Detection System Moufac Flame Detection System Moufac Fare Detection System Moufac Feed Ports MCC - Equip (Load) Feed Porte	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIVE 6693 FAN MOTOR 6693 FAN SENSOR 6693 FAN SZE 6696 FAN TYPE 6699 FC TO FC LEN 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS FANEL	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN Notor Fan Stenson FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeds Panel	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIV TYP 6693 FAN XENSOR 6694 FAN XENSOR 6695 FAN SZE 6697 FCT D FC LEN 6697 FCT D FC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6702 FENCE LENCTH	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan Stenson FAN DRIVE Fan Stenson Fan Steve Fan Detection System Moufac Flame Detection System Moufac Fare Detection System Moufac Feed Ports MCC - Equip (Load) Feed Porte	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6680 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIV TYP 6693 FAN ADRIV TYP 6693 FAN SENSOR 6694 FAN SENSOR 6696 FAN TYPE 6697 FCT DFC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED COMPRT 6701 FEED COMPRT 6701 FEED PANEL 6702 FENCE LENGTH 6703 FENCEVIL TYP	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan Motor Fan Stroom Fan Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeck Panel Fence Wall Type	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN DRIV TYP 6693 FAN XENSOR 6694 FAN XENSOR 6695 FAN SZE 6697 FCT D FC LEN 6697 FCT D FC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6703 FENCEVIL TYP 6105 FFILT 6704 FBER	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan StenSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feect Ength Fence Wall Type Fance Fanel Fence Wall Type	ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRU TYP 6692 FAN DRIVE 6693 FAN MOTOR 6693 FAN MOTOR 6694 FAN SENSOR 6695 FAN SZE 6696 FAN TYPE 6697 FCT OF CLEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6702 FENCE LENCTH 6703 FENCEVUL TYP 6105 FFLT 6704 FIBER 8314 FIBER POFIC CONNECTION TYPE	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan StenSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feect Ength Fence Wall Type Fance Fanel Fence Wall Type	ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN NOTOR 6693 FAN MOTOR 6693 FAN SENSOR 6694 FAN SENSOR 6695 FAN SZE 6696 FAN TYPE 6697 FC TO FC LEN 6698 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED COMPRT 6702 FENCE LENGTH 6703 FENCE LENGTH 6704 FIER 8314 FIER 8314 FIER 8314 FIER 8314 FIER	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN Notor FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feece Length Fence Wall Type FirLT Fiber FIED to Change/Add	ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIV TYP 6693 FAN ADRIV TYP 6694 FAN SENSOR 6695 FAN SZE 6696 FAN SZE 6697 FC TO FC LEN 6698 FOS MFC 6699 FOS MODEL 5531 FED B Y 6700 FED COMPRT 6701 FEED COMPRT 6702 FEED SANEL 6703 FENCEVLUTYP 6105 FUT 6704 FBER 8934 FIBER 8934 <fiber< td=""> PTIC CONNECTION TYPE 7662 FELD</fiber<>	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN DRIVE Fan StenSOR FAN SENSOR FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeds Panel Fence Length Fence Wall Type FILT Fiber FiLU to Change/Add FIG #	ALN		FAN SENSOR FAN TYPE	
6690 FAN BLD PTCH 6691 FAN DRU TYP 6692 FAN DRIVE 6693 FAN MOTOR 6693 FAN MOTOR 6694 FAN SENSOR 6695 FAN SZE 6696 FAN TYPE 6697 FC TO FC LEN 6698 FDS MGE 6599 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6705 FFLUT 6706 FEED CONPCT 6707 EFED PORTS 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6702 FERCE UNTH 6703 FECCUL TYP 6105 FFLT 6704 FIBER 8914 FIBER OFFIC CONNECTION TYPE 7662 FIELD 5451 FIG 6705 FILL FLUID	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feece Vall Type FFLT Fiber FiLE to Change/Add FIG #	ALN		FAN SENSOR	
6690 FAN BLD PTCH 6691 FAN DRI TYP 6692 FAN NOTOR 6693 FAN MOTOR 6693 FAN SENSOR 6693 FAN SENSOR 6693 FAN SENSOR 6693 FAN NYEE 6697 FC TO FC LEN 6698 FDS MFG 6699 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED PORTS 5502 FEEDS 7364 FEEDS PANEL 6703 FEECEWIL TYP 6103 FFLCEWIL TYP 6105 FFLT 6704 FIBER 8314 FIBER OPTIC CONNECTION TYPE 7662 FELD 5451 FIG 6705 FILL FLUID 6190 FLUID	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan SenSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feecte Length Fence Wall Type Filter Filter Filter Filter Juid Filted Juid Filtel Juid Filtel Juid Filtel Juid	ALN		FAN SENSOR FAN TYPE	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN DRIV TYP 6693 FAN MOTOR 6694 FAN SENOR 6695 FAN SZE 6696 FAN SENOR 6697 FCT DFC LEN 6698 FOS MFG 6699 FDS MODEL 5531 FED BY 6700 FED COMPRT 6701 FEDE ONTS 5502 FEDS 7364 FEDS PANEL 6703 FENCEVIL TYP 6105 FILT 6704 FBER 8934 FIBER OPTIC CONNECTION TYPE 7652 FELD 5451 FIG 6705 FILL FLUID 5190 FILE	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN DRIVE Fan Stexon FAN DRIVE Fan Stexe FAN DRIVE Fan Stexe FAN TYPE Length Face to Face Flame Detection System Moufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeds Panel Feeds Panel Feede Compartment Feede Compared Comp	ALN		FAN SENSOR FAN TYPE	
6690 FAN BLD PTCH 6691 FAN DRIV TP 6692 FAN DRIVE 6693 FAN MOTOR 6693 FAN SENSOR 6694 FAN SENSOR 6695 FAN SZE 6696 FAN TYPE 6697 FC TO FC LEN 6698 FDS MOGE 5531 FC TO FC LEN 6698 FDS MOGE 5531 FC DF Y 6700 FEED COMPRT 6701 FEED PORTS 5502 FEDS 7364 FEEDS SANEL 6702 FENCE LENGTH 6703 FEEC PORTS 5320 FEEDS 7364 FEED PORTS 5035 FHCUT 6105 FHUT 6704 FBER 8934 FIBE ROTIC CONNECTION TYPE 7662 FIELD 5451 FIG 6190 FILER #2 6190 FILER MEDIA 6199 FILER MEDIA	Fan Blade Pitch Fan Drive Type FAN DRIVE FAN Notor FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Fower Source Feed Compartment Feed Ports MCC - Equip (Load) Feece Length Fence Wall Type FILT Fiber FiLET SIZE #2 FiltR SIZE #2 FiltR SIZE #2	ALN		FAN SENSOR FAN TYPE FAN TYPE	
6690 FAN BLD PTCH 6691 FAN DRIV TYP 6692 FAN NOTOR 6693 FAN MOTOR 6693 FAN SENSOR 6694 FAN SENSOR 6695 FAN SENSOR 6696 FAN TYPE 6697 FC TO FC LEN 6698 FDS MODEL 5531 FED BY 6700 FEED COMPRT 6701 FEED FONTS 5502 FEED S 7364 FEED SANEL 6702 FENCE LENGTH 6703 FEEC CONNECTION TYPE 6105 FFILT 6704 FIBER 8314 FIBER OPTIC CONNECTION TYPE 7662 FELD 5451 FIG 6705 FILET MEDIA 6109 FILTER MEDIA 6109	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeder Source Feeder Derts MCC - Equip (Load) Feeder Source Feeder Derts MCC - Equip (Load) Feeder Derts Feeder Derts Filer Filter Filter Filter Filter Filter Filter Type Media Filter Type Media Filter Type Media Filter Type Media	ALN		FAN SENSOR FAN TYPE	
6690 FAN BLD PTCH 6691 FAN DRV TYP 6692 FAN DRV E 6693 FAN MOTOR 6694 FAN SENOR 6695 FAN SENOR 6696 FAN SENOR 6697 FC TO FC LEN 6698 FOS MFC 6699 FDS MFC 6699 FDS MODEL 5531 FED BY 6700 FED COMPRT 6701 FEED FONTS 5502 FEEDS 7364 FEED SPANEL 6703 FENCEVUL TYP 6105 FILT 6704 FBER 8344 FIBER OPTIC CONNECTION TYPE 7602 FELDC 5451 FIG 6705 FILL FLUID 6109 FILTE # 2 6706 FILTE # 22 6706 FILTE MEDIA 6199 FILTE NZEE 6707 FILTE NZEE 6706 FILTE NZE 6707 FILTE NZE </td <td>Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN DRIVE Fan Stexe FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Mondel Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeds Panel Fence Length Fence Wall Type Fiber FIEU to Change/Add FIG # Filter Type Media Filter Type Filter Type</td> <td>ALN ALN ALN</td> <td></td> <td>FAN SENSOR FAN TYPE FAN TYPE</td> <td></td>	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor FAN DRIVE Fan Stexe FAN SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Mondel Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeds Panel Fence Length Fence Wall Type Fiber FIEU to Change/Add FIG # Filter Type Media Filter Type	ALN		FAN SENSOR FAN TYPE FAN TYPE	
6690 FAN BLD PTCH 6691 FAN DRI TP 6692 FAN DRIVE 6693 FAN MOTOR 6694 FAN SENSOR 6695 FAN SENSOR 6696 FAN TYPE 6697 FCT OF CLEN 6698 FOS MFG 6699 FOS MODEL 5531 FED BY 6700 FEED COMPAT 6701 FEED PORTS 5502 FEED COMPAT 6702 FEEC CUMPAT 6703 FEED CONTS 7364 FEED PORTS 5502 FEED 7364 FEED PORTS 6105 FFILT 6704 FIER 8944 FIER OPTIC CONNECTION TYPE 7662 FIELD 5451 FIG 6706 FILTER MEDIA 6139 FILTER MEDIA 6139 FILTER MEDIA 6139 FILTER MEDIA 6139 FILTER MEDIA 61390 FICHEN M	Fan Blade Pitch Fan Drive Type FAN DRIVE Fan Motor Fan SENSOR Fan Size FAN TYPE Length Face to Face Flame Detection System Manufac Flame Detection System Model Equipment Power Source Feed Compartment Feed Ports MCC - Equip (Load) Feeder Source Feeder Derts MCC - Equip (Load) Feeder Source Feeder Derts MCC - Equip (Load) Feeder Derts Feeder Derts Filer Filter Filter Filter Filter Filter Filter Type Media Filter Type Media Filter Type Media Filter Type Media	ALN ALN <td></td> <td>FAN SENSOR FAN TYPE FAN TYPE</td> <td></td>		FAN SENSOR FAN TYPE FAN TYPE	
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	6719 FLOW CAPACTY	Flow Capacity	ALN			
	6720 FLOW RATE	Flow Rate	ALN			
	6721 FLR FIN TYP	Floor Finish Type	ALN			
		Filter Motor Horsepower	ALN			
		Fluid Capacity	ALN			
		Fluid Type	ALN			
		Flywheel	ALN			
		First Name	ALN			
		RACK SIZE OF THE DEVICE (1U, 3U, ETC.)	ALN			
		FountainTypes	ALN			
		FRAME	ALN			
		Frame Rate	ALN			
		Frame Size Frequency	ALN			
		FRONT AXLE CAP	ALN ALN	HZ		
		FRONT TIRE SIZE	ALN			
		FUEL CARD NUMBER	ALN			
		Fuel Consumption Full Load	ALN			
		Fuel Consumption	ALN			
		FUEL FILTER	ALN			
		Fuel Reserve	ALN			
		FUEL TYPE	ALN			
		FUEL CAPACITY	ALN			
	6201 FUELTYPE	FUEL TYPE	ALN			
	6148 FULL	As Found	ALN			
	6729 FULL LD AMPS	Full Load Amps	ALN			
	6151 FULL LEFT	As Left	ALN			
	5555 FUNCTION	Function	ALN			
		Functionality	ALN			
		Fuse Amperage		AMPS		
		FUSE Y/N, SIZE & TYPE	ALN			
		Fuse Type	ALN			
		Future Replacement Date	ALN			
		Grey Water Tank Capacity	NUMERIC	GAL		
		GAL	ALN			
		Gas Composition	ALN			
		Flare Gas Max Flow	ALN			
		GASKET THICKNESS	ALN			
		Gate Seal Type	ALN		GATE SEAL TYPE	
		Gate Material	ALN			
		Gate Travel	ALN		CATE DUDE	
		Gate Type IP Address Gateway	ALN		GATE TYPE	
		GEAR	ALN			
		Gearbox Drive Type	ALN		GEARBOX DRIVE	
		Gearbox Silve Type	ALN		OLANDOX DIVIVE	
		Generator Model Number	ALN			
		Generator Serial Number	ALN			
		Generator Type	ALN			
		MODEL GENERATION (G5, G6, G7, ETC.)	ALN			
		Generator RPM	ALN			
		Generator Type	ALN		GENERATOR TYPE	
	7972 GID	GIS Internal System ID	ALN ALN			
	7972 GID 7962 GIS_CREATED_BY		ALN			
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	7972 GID 7972 GID 7962 GIS_CREATED_BY 7968 GIS_UPDATED_BY 7974 GIS_UPDATED_BY 7974 GIS_UPDATED_BY 7972 GOV TYPE 6109 GPM 6742 GPS COORD X 6742 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6744 GPS COORD X 6745 GR COORD X 6744 GPS COORD X 6744 GPS COORD X 6745 GR COORD X 6744 GPS COORD X 6745 GRINDING MECH 8702 GWW 8734 H. VOLT BIL 7728 HANSONCL DISTORTION THD 6747 HAS TAG NO 6748 HAS VIT LOCK 6749 HAS TAG NO 6749 HAS AUXLL 6749 HAS AUXL 6749 HAS AUXL <t< td=""><td>GIS Internal System ID GIS Created Date GIS Created Date GIS Created Date GIS Created Date GIS Updated By GIS Logdated By GIS Logdated By GIS Logdated By GIS Coordinates - X GPS Coordina</td><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td>FT</td><td>YES/NO YES/NO YES/NO</td><td></td></t<>	GIS Internal System ID GIS Created Date GIS Created Date GIS Created Date GIS Created Date GIS Updated By GIS Logdated By GIS Logdated By GIS Logdated By GIS Coordinates - X GPS Coordina	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO YES/NO YES/NO	
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	7922 GID 7922 GID 7926 GIS_CREATED_BY 7926 GIS_CREATED_DATE \$928 GIS_UD 7926 GIS_CREATED_DATE \$928 GIS_UD \$924 GIS_UDDATED_BY 312 GLACCOUNT \$721 GLACCOUNT \$722 GOV TYPE 609 GPM 6741 GPS COORD X 6742 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6745 GRID CONT 6746 GRID CONT 6747 GPS COORD X 6748 GPS COORD X 6749 GPS COORD X 6744 GPS COORD X 6744 GPS COORD X 6744 GPS CONT 6745 GRID ID 6746 GRID ID 6747 GPS CONT 6748 GPS CONT 6749 GPS CONT </td <td>GIS Internal System ID GIS Created By GIS Created Date GIS Created Date GIS Coreated Date GIS Updated By GIS LAccount GIS LAccount Governor Type GPM GPM GPM GPM GPS Coordinates - X GPS C</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>YES/NO YES/NO YES/NO</td> <td></td>	GIS Internal System ID GIS Created By GIS Created Date GIS Created Date GIS Coreated Date GIS Updated By GIS LAccount GIS LAccount Governor Type GPM GPM GPM GPM GPS Coordinates - X GPS C	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO YES/NO	
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	7922 GID 7926 GIS_CREATED_BY 7968 GIS_CREATED_DATE \$988 GIS_DD 7964 GIS_CREATED_DATE \$988 GIS_DD 7964 GIS_CREATED_DATE \$988 GIS_DD \$712 GLACCOUNT \$720 GIOS ON YPE 6109 GPM 6741 GPS COORD X 6742 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6745 GRINDING MECH 8726 GRUD_D 6745 GRINDING MECH 8726 GRUD_D 6745 GRINDING MECH 8726 GRUD_D 6747 HAS TAS NO 6748 HAS VIT LOCK 6110 HEAD 7728 HARMONIC DISTORTION THD 6747 HAS TAG NO 6748 HAS VIT LOCK 6110 HEAD 513 HEADWALL 6749 HEIGHT 6740 HEIGHT 6740 HEIGHT 6741 HEADWALL 6742 HEIGHT 6742 HEIGHT 6754 HH-POLE E	GIS Internal System ID GIS Created Date GIS Created Date GIS Created Date GIS Coreated Date GIS Labored Date	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO YES/NO	
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	7922 GID 7926 GIS_CREATED_BY 7966 GIS_CREATED_DATE \$988 GIS_DD 7964 GIS_UPDATED_BY 7964 GIS_UPDATED_BY 7972 GIO 7972 GIO 6109 GPM 6109 GPM 6109 GPM 6741 GPS COORD X 6742 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6743 GPS COORD X 6744 GPS COORD X 6747 IAS GPS COORD X 6782 GRINDNG MECH 6792 GWD 6783 GWR 6747 IAS ACUATOR 6747 IAS ACUATOR 6748 HAS UT LOCK 6100 IEAD 5131 IEADWALL 6744 HAS ACUATOR 6752 IMA HAPOLE CLASS 6984 IH-POL	GIS Internal System ID GIS Internal System ID GIS Created By GIS Created Date GIS Coreated Date GIS Located By GIS Coordinates - X GPS Coordinates	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO YES/NO	
	7922 GID 7926 GIS_CREATED_BY 7968 GIS_CREATED_DATE \$988 GIS_DD 7964 GIS_CREATED_DATE \$988 GIS_DD 7964 GIS_CREATED_DATE \$988 GIS_DD \$9794 GIS_CREATED_DATE \$984 GIS_UPDATED_BY \$712 GLACCOUNT \$712 GLACCOUNT \$712 GLACCOUNT \$712 GLACCOUNT \$712 GLACCOUNT \$712 GLACCOUNT \$712 GLACOUNT \$714 GPS COORD X \$714 HOLT SHOPTH \$714 HOLT SHOPTH \$717 HARMONIC DISTORTION THD \$718 HARMONIC DISTORTION THD \$717 HARMONIC DISTORTION THD \$717 HARMONIC DISTORTION THD \$718 HARMONIC DISTORTION THD \$718 HARMONIC	GIS Internal System ID GIS Created By GIS Created By GIS Created Date GIS Coreated Date GIS Located By GIS Coordinates - X GPS Coordinates - X GPS Coordinates - X GPS Coordinates - X GPS Coordinates - Z GPS Coordinates COORD GPS Coordinates COORD, Cordinates COORD, CHILIN DRY, OTHER CDAR, RI, HEMCOCK, LARCH, PINE, SPRUEC, OTHER COAR, RI, HEMCOCK, LARCH, PINE, SPRUE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO YES/NO	
	7922 GID 7922 GID 7926 GIS_CREATED_BY 7926 GIS_CREATED_DATE \$928 GIS_UD 7924 GIS_CREATED_DATE \$928 GIS_UD 7924 GIS_CONDATED_BY 7924 GIS_CONT \$722 GOX TYPE 609 GPM 6741 GPS COORD X 6742 GPS COORD X 6743 GPS COORD X 6744 GRASE TRAPS 00308 GRAFEST EPTH 7952 GIRJ_ID 6745 GRINDIN MECH 6745 GRINDIN MECH 6748 GRINDIN MECH 6749 MAS ACTUATOR 6749 MAS ACTUATOR 6749 MAS ACTUATOR 6744 MAS ACTUATOR 6749 MAS CONCIDISTORTION THD 6749 HAPOLE INSTATION 67513 HEADWALL 6740 MAS TACONCIDI	GIS Internal System ID GIS Internal System ID GIS Created By GIS Created Date GIS Coreated Date GIS Lobu GIS Cordinates - X GIS Cordinates - X GIS Cordinates - Z GIS Cordinates - Z GIS Cordinates - Z GIS Cordinates - Z GIS Lobu	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO YES/NO	
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	7972 [GID 79762 [GIS_CREATED_BY 7986 [GIS_CREATED_DATE \$986 [GIS_D 7986 [GIS_CREATED_DATE \$986 [GIS_DD 7984 [GIS_UPDATED_BY 7312 [GLACCOUNT \$732 [GLACCOUNT \$732 [GLACCOUNT \$7312 [GLACCOUNT \$732 [GOCORD X \$741 [GPS COORD X \$741 [GPS COORD X \$743 [GPS COORD X \$744 [GPS COORD X \$753 [GRADE \$744 [GPS COORD X \$753 [GRADE \$744 [GPS COORD X \$753 [GRADE \$754 [GRADE \$755 [GRID_D \$754 [GRADE \$752 [GRID_D \$754 [GRADE \$752 [GRID_D \$754 [GRADE \$754 [GRADE \$752 [GRID_D \$754 [GRADE \$75	GIS Internal System ID GIS Created By GIS Created By GIS Created Date GIS Coreated Date GIS Located By GPM GPM GPM GPM GPS Coordinates - X GPS Coordinates - X GPS Coordinates - Y GPS Coordinates - Z GPS Coordinates COORD GPS Coordinates COORD GPS Coordinates COORD, CSTEAM COND, CSTEAM COND, CHER GPS COORD GPS Coordinates COORD GPS COORD	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO YES/NO YES/NO	
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5572 HOUSING MATE	Housing material	ALN			
6111 HP	HP	ALN	HP		
6206 HP.	HORSEPOWER	ALN			
6755 HVAC TYPE	HVAC Type	ALN		HVAC TYPE	
5864 HVRATING	High Voltage Rating	NUMERIC			
7974 HYD_JO	Hydraulics Job Order Number	ALN			
5612 HYDRA FLOW	Hydraulic Flow	ALN	GPM		
9427 HYDRAULIC SYSTEM FLUID CAPACITY	Hydraulic System Fluid Capacity	NUMERIC	GAL		
9426 HYDRAULIC SYSTEM FLUID TYPE	Hydraulic System Fluid Type	ALN			
6230 HZ	CYCLES	ALN			
6228 I.D. NUMBER	I.D. NUMBER	ALN			
6756 I-BEAM HGHT	I-Beam Height	ALN			
6112 ID	ID	ALN			
5859 ID_NUM	ID Number	ALN			
9024 IF NOT, PT RATIO	IF NOT, PT RATIO	ALN			
9816 IF PV, WHAT IS MASTER METER NUMBER?	If PV, What is master meter Number?	ALN			
10476 IF NOT PT RATIO	IF NOT PT RATIO	ALN			
6757 IGN SYS MFG	Ignition System Manufacturer	ALN			
6758 IGN SYS MODL	Ignition System Model	ALN			
6759 IMAGE SENSOR	Image Sensor	ALN			
6760 IMAGE SETT					
	Image Settings	ALN			
6113 IMP	IMP	ALN			
5458 IMP DIA	Impeller Diameter				
5601 IMP DIAM.		ALN			
5743 IMPEDANCE	Impedance-% Z	ALN			
9774 IMPEDANCE %	IMPEDANCE %	ALN			
6761 IMPELLR DIAM	Impeller Diameter	ALN			
6762 IMPL SD BRNG	Impeller Side Bearing	ALN			
6114 IN SP	IN SP	ALN			
5558 IN TOP IN		ALN			
6211 INBOARD	INBOARD BEARING	ALN			
6766 IND COIL D S	Indoor Coil Drain Size	ALN			
6767 IND COIL TYP	Indoor Coil Type	ALN			
9966 INDIVIDUAL PAVER SIZE	Individual Paver Size	ALN			
5446 ING. KEY	ING. KEY NUMBER	ALN			
9994 INITIAL AGGREGATE VOLUME	Initial Aggregate Volume	NUMERIC	CUF		
5556 INLET COND	Pipe Inlet Condition	ALN			
6768 INLET CONN	Inlet Connection	ALN			
10304 INLET ELEVATION	INVERT ELEVATION AT THE TUNNEL INLET	ALN	FT		
6769 INLET PRESS	Inlet Pressure	ALN			
6770 INLET TEMP	Inlet Temperature	ALN			
6771 INLT MST CNT	Inlet Moisture Content	ALN			
6763 IN-OUT BUS	Input-Output Bus	ALN			
6764 IN-OUT DROP	Input-Output Drop	ALN			
6765 IN-OUT PANEL	Input-Output Panel	ALN			
6772 INP VOLT RNG	Input Volt Range	ALN			
6773 INP-OUTP RSP	Input-Output R/S/P	ALN		INPUT-OUTPUT RSP	
6774 INP-OUTP TYP	Input-Output Type	ALN			
				INPUT-OUTPUT TYPE	
6251 INPUT	Input	ALN		INPUT-OUTPUT TYPE	
6251 INPUT 7842 INPUT AMP	Input	ALN ALN	AMDC		
6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS	Input Input Amperage	ALN ALN ALN	AMPS		
6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS 5505 INPUT KVA	Input Input Amperage Input Kilovolt Ampere Rating	ALN ALN ALN ALN	KVA		
6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS 5505 INPUT KVA 5506 INPUT KW	Input Input Amperage Input Kilowolt Ampere Rating Input Kilowatt	ALN ALN ALN ALN ALN			
6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS 5505 INPUT KVA 5506 INPUT KW 6252 INPUT POWER	Input Input Amperage Input Kilovoit Ampere Rating Input Kilovatt Input Kilovatt	ALN ALN ALN ALN ALN ALN	KVA KW		
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6251 INPUT 7842 INPUT AMP 5505 INPUT AMPS 5505 INPUT KVA 6252 INPUT FOWER 7372 INPUT FOWER 6253 INPUT FOWER 6253 INPUT SPEED 6258 INPUT V RNG	Input Input Amperage Input Kilovolt Ampere Rating Input Kilovatt Input Power Input RPM	ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW		
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6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS 5505 INPUT KVA 6252 INPUT KW 6252 INPUT POWER 7372 INPUT POWER 6253 INPUT SPEED 5658 INPUT V RNG 7844 INPUT VOLT 5504 INPUT VOLT	Input Input Amperage Input Kilowott Ampere Rating Input Kilowott Input Power Input PM Input Speed Control Input Volt Range Input Volt Range	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW RPM		
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6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS 5505 INPUT KVA 6525 INPUT KVA 6252 INPUT POWER 7372 INPUT ROWER 7372 INPUT ROWER 5588 INPUT V RNG 7844 INPUT VOLT 5504 INPUT VOLT 6233 INSCLASS 6254 INS MGMT MNT	Input Input Amperage Input Kilovolt Ampere Rating Input Kilovolt Ampere Rating Input Rower Input Rower Input RPM Input Speed Control Input Volt Range Input Voltage Input Voltage Input Voltage Input Voltage	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW RPM VOLTS		
6251 INPUT 7842 INPUT AMP 5503 INPUT AMPS 5505 INPUT KVA 5506 INPUT KV 6252 INPUT RPM 6253 INPUT SPEED 5658 INPUT V RMG 7844 INPUT VOLT 5504 INPUT VOLT 6233 INS CLASS	Input Input Amperage Input Kilovoit Ampere Rating Input Kilovoit Ampere Rating Input Kilowatt Input Power Input Speed Input Speed Control Input Voit Range Input Voitage Input Voitage Input Voitage Install, Mgm & Maintenance Motor Insulation Rating	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KVA KW RPM VOLTS		
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6251 INPUT 7842 INPUT AMP 5505 INPUT KWA 5505 INPUT KWA 6252 INPUT POWER 7322 INPUT POWER 7323 INPUT AMPS 6253 INPUT SPEED 5656 INPUT VRG 7328 INPUT VOLT 5506 INPUT VOLT 5506 INPUT VOLT 6231 INS CLASS 6231 INS CLASS 6254 INS MGMT MNT 5460 INS CLASS 9522 INSIDE DIA 5461 INSPECTED BY 6066 INSTALL DATE 9052 INSTA FLTR 6255 INSTA FLTR 6256 INSTMT SVC 6257 INSTRMT TYPE 5425 INSULAT CLSS 6258 INSULAT CLSS 6259 INSULAT CLSS 6259 INST ALLER 10478 INTERNAL IP 9800 INTERNAL PAT 7050 INTER CO 10478 INTERNAL PORT 9802 INTERNAL PORT 9802 INTERNAL PORT 9802 INTERNAL PORT 10480 INTERNAL PORT 10428 INTERNAL PORT 10428 INTERNAL PORT 10428 INTERNAL PART 10420 INTER	Input Input Input Input Amperage Input Klovolt Ampere Rating Input Klovolt Ampere Rating Input Klovolt Ampere Rating Input Kower Input RPM Input Speed Control Input Volt Range Input Voltage Inst Input Voltage Inst Input Voltage Inst Inst Input Klovolt Rating INSIDE DIAMETER INSECTED BY Installation Rating INSIDE DIAMETER Installer Installer Installer Installer Installer Instrument Xir Filters Instrument Xir Filters Instrument Xir Filters Insulation System Insulation System Insulation System Insulation System Insulation IAREL LESS-FLAMMABLE, NON-FLAMMABLE As Found As Left INTER CO Internal IP Address Internal IP	ALN	KVA KW RPM VOLTS VOLTS		
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5570 ISOLATING DI	Isolating Diaphragm	ALN			
6204 ISSUE DATE	DATE OF ISSUE	ALN			
9462 ITEM COLOR	Item Color	ALN			
7104 ITEM DESCRIPTION		ALN			
10402 ITEMAMPS	ITEM AMPS	NUMERIC	AMPS		
10394 ITEMBENDRADIUS	ITEM BEND RADIUS	ALN			
10348 ITEMCOLOR	ITEM COLOR	ALN			
10358 ITEMCONTAINER	ITEM CONTAINER	ALN			
10384 ITEMDEPTH	ITEM DEPTH	ALN			
10342 ITEMDESC	ITEM DESCRIPTION	ALN			
10386 ITEMGAUGE	ITEM GAUGE	ALN			
10350 ITEMGRADE	ITEM GRADE	ALN			
10420 ITEMGRNGRL1	ITEM GRAINGER CATEGORY LEVEL 1	ALN			
10422 ITEMGRNGRL2	ITEM GRAINGER CATEGORY LEVEL 2	ALN			
10424 ITEMGRNGRL3	ITEM GRAINGER CATEGORY LEVEL 3	ALN			
10382 ITEMHEIGHT	ITEM HEIGHT	ALN			
10406 ITEMHORSEPOWER	ITEM HORSEPOWER	NUMERIC	HP		
10352 ITEMINDUSTRYSTD	ITEM INDUSTRY STANDARD	ALN			
10388 ITEMINSIDEDIAMETER	ITEM INSIDE DIAMETER	NUMERIC	IN		
10360 ITEMLENGTH	ITEM LENGTH	ALN			
10346 ITEMMATL	ITEM MATERIAL	ALN			
10390 ITEMOUTSIDEDIAMETER	ITEM OUTSIDE DIAMETER	NUMERIC	IN		
10400 ITEMPHASE	ITEM PHASE	ALN			
10408 ITEMSERVICE1	ITEM SERVICE 1	ALN			
10410 ITEMSERVICE2	ITEM SERVICE 2	ALN			
10354 ITEMSIZESTD	ITEM SIZE STANDARD	ALN			
10344 ITEMTYPE	ITEM TYPE	ALN			
10412 ITEMUSEDON	ITEM USED ON	ALN			
10412 TEMUSEDON 10414 ITEMUSEDONMAKE	ITEM USED ON MAKE	ALN			
10414 ITEMUSEDONMARE 10416 ITEMUSEDONMODEL	ITEM USED ON MAKE	ALN			
10416 ITEMUSEDONMODEL 10418 ITEMUSEDONYEAR	ITEM USED ON YEAR	ALN			
10396 ITEMVOLTAGE	ITEM VOLTAGE	NUMERIC	VOLTS		
10396 ITEMVOLTAGE 10398 ITEMVOLTAGETYPE		ALN			
10398 ITEMVOLTAGETYPE 10356 ITEMVOLUME	ITEM VOLTAGE TYPE				
10356 ITEMVOLUME 10392 ITEMWALLTHICKNESS		ALN	INI		
	ITEM WALL THICKNESS	NUMERIC			
10404 ITEMWATTS	ITEM WATTS	NUMERIC	vvA115		
10362 ITEMWIDTH	ITEM WIDTH	ALN			
6264 JURISD	Jurisd	ALN			
7466 KAIC	X-KAIC RATING	ALN			
6180 KEY NO.	KEY NUMBER	ALN			
5466 KEYWORD	MAXIMO KEYWORD	ALN			
5755 KH	METER CONSTANT	ALN			
9188 KH-TV <150V		ALN			
9190 KH-TV >150V		ALN			
5467 KV	KILOVOTS	ALN			
8362 KV BIL		ALN			
5863 KVA	KILOVOLTAMP	NUMERIC		KVA	
7066 KVAMPS	KILOVOLT AMPS	ALN			
6115 KW	ĸw	ALN			
5735 L. VOLT BIL	Low Voltage BIL	ALN			
5796 L1 LUMINAIRE	Light Style	ALN		LUMINAIRE	
				SIDE	
5797 L1 SIDE	Fixture Location on Pole	ALN			
5797 L1 SIDE 5798 L1 TYPE	Fixture Location on Pole	ALN			
5798 L1 TYPE	Lamp Type	ALN		LAMP TYPE	
5798 L1 TYPE 5807 L1 WATT	Lamp Type Fixture Wattage	ALN	WATTS	LAMP TYPE WATTAGE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE	Lamp Type Fixture Wattage Fixture Style	ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE	
5798 LI TYPE 5807 LI WATT 5799 L2 LUMNAIRE 5801 L2 SIDE	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole	ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE	
5798 LI TYPE 5807 LI WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type	ALN ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 LI TYPE 5807 LI WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage	ALN ALN ALN ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE	Lamp Type Fixture Vattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Style	ALN ALN ALN ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE	
5798 LI TYPE 5807 LI WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Wattage Fixture Style Fixture Location on Pole	AIN AIN AIN AIN AIN AIN AIN AIN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 TYPE	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 TYPE 5814 L3 WATT	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Wattage Fixture Style Fixture Location on Pole	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 SIDE 5806 L3 TYPE 5814 L3 WATT 7402 LAMP TYPE & SPEC	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 TYPE 5814 L3 WATT 7402 LAMP TYPE & SPEC 6265 LAST UPDT DT	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Wattage Lat Updated Date	ALN	WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 SIDE 5806 L3 TYPE 5814 L3 WATT 7402 LAMP TYPE & SPEC	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	WATTS WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 TYPE 5814 L3 WATT 7402 LAMP TYPE & SPEC 6265 LAST UPDT DT 6266 LAST PAINT DT 9674 LAT LUMICHER MFG	Lamp Type Fixture Wattage Fixture Style Fixture Location on Pole Lamp Type Fixture Location on Pole Lamp Type Fixture Wattage Fixture Style Fixture Vactation on Pole Lamp Type Fixture Wattage Last Painted Date Last Painted Painted Painted Painted Painted Painted Painted Painted Pai	ALN	WATTS WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 L1 TYPE 507 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 TYPE 5814 L3 WATT 7402 LAMP TYPE & SPEC 6265 LAST UPOT DT 6266 LASTPAINT DT 9674 LAT LAUNCHER MFG 9676 LAT LAUNCHER MODEL	Lamp Type Fixture Wattage Fixture Style Fixture Jocation on Pole Lamp Type Fixture Vattage Fixture Vattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Last Dipdated Date Last Painted Date Last Painted Date Lateral Launcher Manufacture Lateral Launcher Model	ALN	WATTS WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
5798 L1 TYPE 5807 L1 WATT 5799 L2 LUMINAIRE 5801 L2 SIDE 5802 L2 TYPE 5813 L2 WATT 5803 L3 LUMINAIRE 5805 L3 SIDE 5806 L3 TYPE 5814 L3 WATT 7402 LAM TYPE & SPEC 6265 LAST UPD TD T 6266 LASTPAINT DT 9676 LAT LAUNCHER MFG 9676 LAT LAUNCHER MODEL 9678 LAT LAUNCHER MODEL	Lamp Type Fixture Wattage Fixture Vattage Fixture Style Fixture Location on Pole Lamp Type Fixture Wattage Fixture Vattage Fixture Location on Pole Lamp Type Fixture Vattage Last Updated Date Last Painted Date Last Painted Date Lateral Launcher Manufacture Lateral Launcher Model Lateral Launcher Serial Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	WATTS WATTS	LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE WATTAGE LUMINAIRE SIDE LAMP TYPE	
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5798 <li td="" type<=""> 5807<li td="" watt<=""> 5799<l2 luminare<="" td=""> 5801<l2 side<="" td=""> 5802<l2 td="" type<=""> 5803 5803 5804 5805 5805 5805 5806 5806 5807 5808 5806 5807 5806 5807 5806 5807 5806 5807 5806 5807 5806 5807 5814 5807 5814 5808 5808 5804 5805 5804 5805 5814 5814 5814 5814 5814 5814 5814 5814 5814 5814 5814 5814 5814</l2></l2></l2>	Lamp Type Fixture Wattage Fixture Style Fixture Style Fixture Vattage Fixture Wattage Fixture Vattage Fixture Vattage Fixture Style Fixture Style Fixture Style Fixture Style Fixture Style Fixture Style Fixture Wattage a Stature Location on Pole Lamp Type Fixture Wattage a Last Updated Date Last Painted Date Last Painted Date Lateral Launcher Monifacture Lateral Launcher Model Lateral Launcher Serial Number Distance North Lateral Capacity psf LATTUDE FUNCTIONAL LAYER OF THE SWITCH A, B, C Length in Foot LENSTH Level Life Cycle Status Large Crawler Manufacture Large Crawler Model Large Crawler Model Large Crawler Model Large Crawler Stala Number Length per Serial Number <t< td=""><td>AIN ALN ALN <!--</td--><td>WATTS WATTS WATTS</td><td>LAMP TYPE WATTAGE LIMINAIRE SIDE LAMP TYPE WATTAGE LIMINAIRE SIDE LIMINAIRE WATTAGE</td><td></td></td></t<>	AIN ALN ALN </td <td>WATTS WATTS WATTS</td> <td>LAMP TYPE WATTAGE LIMINAIRE SIDE LAMP TYPE WATTAGE LIMINAIRE SIDE LIMINAIRE WATTAGE</td> <td></td>	WATTS WATTS WATTS	LAMP TYPE WATTAGE LIMINAIRE SIDE LAMP TYPE WATTAGE LIMINAIRE SIDE LIMINAIRE WATTAGE	
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5798 LI TYPE 507 LI WATT 5590 L2 INMINIRE 5801 L3 SIDE 5802 L2 TYPE 5803 LUMINAIRE 5804 L2 TYPE 5805 L3 SIDE 5806 LUMINAIRE 5806 LUMINAIRE 5806 LIVPE 5806 LATUN 5806 LATUN 5806 LATUNCHER MED 6265 LAST UPD TOT 6266 LASTPAINT DT 9676 LAT LAUNCHER MODEL 9676 LAT LAUNCHER MODEL 9676 LAT LAUNCHER MODEL 9676 LAT LAUNCHER MODEL 9678 LAT UAUNCHER SER # 5532 LENGNTH 5532 LENGNTH 6532 LENGNTH 6532 LENGNTH 6262 LENN 6070 LEVEL 6263 LENTH 6264 LENS 6070 LEVEL 6268 LEO STATUS 99670 LEGRAWE	Lamp Type Fixture Wattage Fixture Style Fixture Style Fixture Vactage Fixture Vactage Fixture Vactage Fixture Style Fixture Style Fixture Style Fixture Style Fixture Vactage Fixture Vactage Fixture Vactage Itamp Type Fixture Vactage Itamp Type Last Updated Date Last Painted Date Lateral Launcher Manifacture Lateral Launcher Model Lateral Launcher Model Lateral Launcher Model Lateral Capacity psf LATTUDE FUNCTIONAL LAYER OF THE SWITCH A, B, C LENGTH Lens Level Lift Cycle Status Large Crawler Model Lerge Crawler Model Lerge Crawler Model Lerge Crawler Model	ALN ALN </td <td>WATTS WATTS WATTS</td> <td>LAMP TYPE WATTAGE LIMINAIRE SIDE LAMP TYPE WATTAGE LIMINAIRE SIDE LIMINAIRE WATTAGE</td> <td></td>	WATTS WATTS WATTS	LAMP TYPE WATTAGE LIMINAIRE SIDE LAMP TYPE WATTAGE LIMINAIRE SIDE LIMINAIRE WATTAGE	
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6276 LOAD SD BRNG	Load Side Bearing	ALN		
6277 LOC ADDRESS	Location Address	ALN		
8216 LOCATION		ALN		
6067 LOCATION	Physical Location	ALN		
9342 LOCATION / GROUP	Physical Location / Group Assigned To	ALN		
10490 LOCATION ADDRESS	LOCATION/ADDRESS	ALN		
9842 LOCATION UNIT	Location Unit	ALN		
7882 LOCK ROTOR CODE LETTER	A, B, C	ALN		
9942 LOCKED	Locked	ALN	Y/N	
6278 LOCN CLASS	Location Classification (y/n)	ALN		
5548 LONG WEST	Distance West	ALN		
10486 LONGITUDE	LONGITUDE	ALN		
9910 LOOP_NUMBER	Loop Number	ALN		
6150 LOW	As Found	ALN		
6153 LOW LEFT	As Left	ALN		
8244 LOW PRESSURE	REFRIG PSI	ALN		
6246 LOW VOLT	Voltage	ALN		
6235 LR AMPS	LR AMPS	ALN		
5562 LRMS CODE		ALN		
6279 LUBE CAPACTY	Lube Capacity	ALN		
6280 LUBE FILTERS	Lube Oil System Filters	ALN		
6281 LUBE HEATER	Lube Oil System Heater	ALN		
6282 LUBE HT XCHG	Lube Oil System Heat Exchange	ALN		
6283 LUBE MOTOR	Lube Oil System Motor	ALN		
6284 LUBE PUMP	Lube Oil System Pump	ALN		
6285 LUBE SPEC	Lube Spec	ALN		
6286 LUBE SUMP	Lube Oil System Sump	ALN		
5602 LUBE TYPE	Lubrication Type	ALN		
6287 LUBRCTN TYPE	Lubrication Type	ALN		
9441 LUBRICANT GREASE TYPE	Lubricant Grease Type	ALN		
6139 LUBRICATION	Lubrication	ALN		
6288 LUBRICTN GR	Lubrication Grade	ALN		
5782 LUMINAIRE	Light Style	ALN		
5865 LVRATING	Low Voltage Rating	NUMERIC		
6289 LWR DIFF LRL	Lower Differential LRL	ALN		
6290 LWR GAGE LRL	Lower Gage LRL	ALN		
6291 LYOUT DRWLOC	Site Layout Drawing Location	ALN		
6292 M BRKR SIZE	Main Breaker Size	ALN		
6293 M BRKR TYPE	Main Breaker Type	ALN		
6294 M FUSE SIZE	Main Fuse Size	ALN		
6295 M FUSE TYPE	Main Fuse Type	ALN		
5727 M. BREAK AMP	Main Breaker Amperage		AMPS	
5621 M. BREAK SZ	Main Breaker Size	ALN		
5622 M. BREAK TYP	Main Breaker Type	ALN		
5623 M. FUSE TYP	Main Fuse Type	ALN		
10492 MAC ID	MAC ID	ALN		
10040 M-ADDRESS	Mailing address	ALN		
8828 MAIN BREAKER		NUMERIC	AMPS	
8830 MAIN BREAKER AIC		ALN	Awir 5	
		ALIN		
		ALN		
6296 MAIN DRIVER	Main Driver	ALN	K B	
6296 MAIN DRIVER 9026 MAIN MEMORY	Main Driver MAIN MEMORY (KB)	NUMERIC	КВ	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER	MAIN MEMORY (KB)	NUMERIC ALN	КВ	
6296 MAIN DRIVER 9026 MAIN MEMORY 82221 MAIN POWER 10482 MAIN MEMORY KB	MAIN MEMORY (KB) Main Memory (KB)	NUMERIC ALN ALN	КВ	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY	MAIN MEMORY (KB) Main Memory (KB) Maintained By	NUMERIC ALN ALN ALN	КВ	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY 6177 MAKE	MAIN MEMORY (KB) Main Memory (KB)	NUMERIC ALN ALN ALN ALN	KB	
6296 MAIN DRIVER 9026 MAIN MEMORY 82221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTO BY 6177 MAKE 8822 MAKE/MODEL	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE	NUMERIC ALN ALN ALN ALN ALN	КВ	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY 6177 MAKE 8822 MAKE/MODEL 8622 MANHOLE	MAIN MEMORY (KB) Main Memory (KB) Maintained By	NUMERIC ALN ALN ALN ALN ALN ALN ALN	KB	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY 6377 MANE 8822 MANE/MODEL 8622 MANHOLE 6116 MANUF	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN	KB	
6296 MAIN DRIVER 9026 MAIN MEMORY 8222 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY 6177 MAKE 8822 MAKE/MODEL 8822 MAKE/MODEL 8822 MANHOLE 6116 MANUF 7110 MANUFACTURE	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN	KB	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY 6177 MAKE 8822 MARE/MODEL 8622 MANHOLE 6116 MANUF 7110 MANUFACTURE 6079 MANUFACTURER	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH Manufacturer	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN	KB	
6296 MAIN DRIVER 902b MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6297 MAINTD BY 6177 MAKE 8822 MANHOLE 8126 MANUF 7110 MANUFACTURE 6079 MANUFACTURE 9742 MANUFACTURER 9742 MANUFACTURER	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH Minfacturer Manufacturer Manufacturer ManuFacTURER DATE	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	KB	
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6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN DEWORY KB 6297 MAINTD BY 6377 MARE 8822 MAINTD BY 6177 MARE 8822 MANHOLE 6187 MANUFACTURE 6079 MANUFACTURE 9742 MANUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER 9743 MANUFACTURER 9744 MANUFACTURER 9745 MANUFACTURER 9742 MANUFACTURER 9743 MANUFACTURER 9744 MANUFACTURER 9745 MANUFACTURER 9745 MANUFACTURER 9745 MANUFACTURER 9746 MATERIAL 9966 MATERIAL TYPE 7099 MATERIAL TYPE 9966 MATERIAL TYPE 9966 MATERIAL TYPE	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH 24"MH Manufacturer Manufacturer MAUVACTURER DATE Master Meter ID Material Type PORCELAIN Material Type Material Type Material Type Material Type Rated Maximum Ambient Temperature Maximum Titration Flare Gas Max Heat Release Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum Cond Center Type MAXIMUR RUN TIME ON FULL TANK Motor Control Center Type Malling City Malling City Maximum Sequering Unit Maxering Unit Maxering Unit Maxering Unit Maxering Unit	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C PSI	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN NEMORY KB 6297 MAINTD BY 6327 MAINTD BY 6327 MAINTD BY 6327 MAINTD BY 6327 MAINTD EY 6327 MAINTD EY 6328 MANHOLE 6310 MANUF 7110 MANUFACTURE 9742 MANUFACTURER 9742 MANUFACTURER DATE 9066 MASTER METER ID 10494 MASTER METER ID 10494 MASTER METER ID 9306 MATERIAL TYPE 9396 MAX AMB 6301 MAX FILTRATN 6302 MAX KVAR	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE MASter Meter ID Street Pole Material Type Maximum Ambient Temperature Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum VIDME ON FULL TANK Motor Control Center Type Mailing City Mailing C	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C PSI	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6377 MAINT BY 6177 MAKE 8822 MARE/MODEL 8822 MARE/MODEL 6116 MANUF 6017 MAKE 6079 MAUFACTURE 6079 MAUFACTURE 6079 MAUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER 9744 MAUFACTURER 9745 MAUFACTURER 9746 MATERIAL TYPE 9966 MATERIAL TYPE 70990 MATERIAL TYPE 7090 MATERIAL TYPE 6300 MAX FILTATIN 6301 MAX AMB TEMP 6232 MAX KVAR 6303 MAX VOLT 6304 MAX VOLTACE 6303 MAX VOLTACE 6304 MAX VOLTACE 6305 MAX KVAR 6306 MAX VOLTACE 5519 MAXINO ID<	MAIN MEMORY (KB) Main Memory (KB) Maintained By MARK Jar MARK Jar Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Master Meter ID Street Pole Material Type PORCELAIN Material Type Material Type Material S of Construction MaxAMB Maximum Ambient Temperature Maximum Kras Maximum Kras Maximum Voltage maximu Voltage Maximu Voltage Maximu Kars MaXIMUM RUN TIME ON FULL TANK Motor Control Center Type MaXIMUM RUN TIME ON FULL TANK Motor Control Center Type Maximur KUAR Maximur GIA Maximur MUREN TIME ON FULL TANK Motor Control Center Type Maximur KUAR Maximur KUAR Maximur KUAR Maximur KUAREN TIME ON FULL TANK Motor Control Center Type Maximur KUARER OF MEMORY SLOTS THIS DEVICE HAS	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C PSI	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6377 MARE 8322 MAINTD BY 6377 MARE 8822 MARE/MODEL 8125 MAINTD BY 6177 MARE 822 MANHOLE 6182 MARE/MODEL 6116 MANUF 7110 MANUFACTURE 9742 MANUFACTURER 9742 MANUFACTURER DATE 9066 MASTER METER ID 10494 MASTER METER ID 5121 MATERIAL 9966 MATERIAL TYPE 7090 MATERIAL TYPE 9996 MATERIAL TYPE 9997 MANDERIAL TYPE 9998 MATERIAL TYPE 9998 MATERIAL TYPE 9999 MATERIAL TYPE 6300 MAX FUTART 6301 MAX AMB TEMP 6302 MAX KVAR 6303 MAX VOLT 6304 M	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE MASter Meter ID Street Pole Material Type Material Sof Construction Maximum Ambient Temperature Maximum Voltage	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C PSI	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN NEMORY KB 6297 MAINTO BY 6327 MAINTO BY 6297 MAINTO BY 6297 MAINTO BY 822 MARE/MODEL 8421 MANUF 7110 MANUF 7110 MANUFACTURE 9742 MANUFACTURER DATE 9066 MASTER METER ID 10494 MASTER METER ID 10494 MASTER METER ID 9066 MATERIAL TYPE 9069 MATERIAL TYPE 90790 MATERIAL TYPE 9080 MATERIAL TYPE 9080 MATERIAL TYPE 9090 MATERIAL TYPE 9090 MATERIAL TYPE 9090 MATERIAL TYPE </td <td>MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH 24"MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Material Type Material Type PORCELAIN Material Type Maximum Ambient Temperature Maximum Filtration Filar Gas Max Heat Release Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum IUM RUN TIME ON FULL TANK Motor Control Center Type</td> <td>NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>C PSI</td> <td></td>	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH 24"MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Material Type Material Type PORCELAIN Material Type Maximum Ambient Temperature Maximum Filtration Filar Gas Max Heat Release Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum IUM RUN TIME ON FULL TANK Motor Control Center Type	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C PSI	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN MEMORY KB 6377 MARE 6377 MARE 8822 MARE/MODEL 8822 MARE/MODEL 6117 MARE 8822 MARE/MODEL 6127 MANUF 6137 MARE 6137 MARE 6137 MARE 6138 MARE/MODEL 6116 MANUF 6116 MANUF 6079 MANUFACTURER 9742 MANUFACTURER DATE 9066 MASTER METRI ID 10494 MASTER METRI ID 10494 MASTER METRI ID 9069 MATERIAL TYPE 7090 MATERIAL TYPE 9090 MATERIAL TYPE 9090 MATERIAL TYPE 9090 MATERIAL TYPE 6300 MAX FLITATIN 6301 MAX VOLT 6302 MAX KVAR 6303 MAX VOLT 6304 MAX VOLTACE 5319 MAXINO ID 5439 MAXC TYPE 6303 MAX VOLTACE 5319 MAXINO ID 5439 MAXRUN 6304 MAX VOLTACE 5319 MAXINO ID 5439 MA	MAIN MEMORY (KB) Main Memory (KB) Maintained By MARK 24"MH 24"MH Manufacturer MANUFACTURER DATE MARVERTURE TO TE Master Meter ID Master Meter ID Master Meter ID Master Meter ID Material Type PORCELAIN Material Type Materials of Construction MaxAMB Maximum Ambient Temperature Maximum Koras Maximum Koras Maximum Voltage maximum Voltage Maximu RUM TIME ON FULL TANK Motor	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN DEWORY KB 6237 MAINTD BY 6377 MARE 8822 MANHOLE 618 MAUTA EY 6177 MAKE 8822 MANHOLE 618 MAUF 7110 MANUFACTURER 9742 MANUFACTURER DATE 99066 MASTER METER ID 104494 MASTER METER ID 104494 MASTER METER ID 99066 MATERIAL TYPE 70900 MATERIAL TYPE 99366 MATERIAL TYPE 99369 MATERIAL TYPE 99360 MATERIAL TYPE 99360 MATERIAL TYPE 93549 MAX AMB 6320 MAX AMB 6320 MAX KVAR 5330 MAX KVAR 5351 MAX MAN TERL 6301 MAX VOLTAGE 5457 MAX KVAR <td< td=""><td>MAIN MEMORY (KB) Main Amory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Street Pole Material Type Material Type PORCELAIN Material Type PORCELAIN Material Type Maximum Ambient Temperature Maximum Filtration Flare Gas Max Heat Release Maximum Voltage max voltage Maximum Voltage Maximum Voltage Maximum toll RUN TIME ON FULL TANK Motor Control Center Type Maling City MAXIMUM RUN TIME ON FULL TANK</td><td>NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td>C C</td><td></td></td<>	MAIN MEMORY (KB) Main Amory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Street Pole Material Type Material Type PORCELAIN Material Type PORCELAIN Material Type Maximum Ambient Temperature Maximum Filtration Flare Gas Max Heat Release Maximum Voltage max voltage Maximum Voltage Maximum Voltage Maximum toll RUN TIME ON FULL TANK Motor Control Center Type Maling City MAXIMUM RUN TIME ON FULL TANK	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C	
6/296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN TO WER 6177 MAKE 6297 MAINTD BY 6177 MAKE 8822 MANUFACTURE 6116 MANUFACTURE 6079 MANUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER 9744 MANUFACTURER 9745 MANUFACTURER 9746 MATERIAL 9464 MATERIAL TYPE 70906 MATERIAL TYPE 70907 MAX AMB 6308 MAX AMB 6309 MAX AMB 6300 MAX FILTRATN 6301 MAX VOLTA 6302 MAX VOLTA 6303 MAX VOLTA 54	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Master Meter ID Street Pole Material Type Material Type PORCELAIN Material Type PORCELAIN Material Type Material Construction Max AMB Maximum Ambient Temperature Maximum Kars Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum RUN TIME ON FULL TANK Motor Contr	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN DEWORY KB 6297 MAINTD BY 6377 MAKE 8822 MAINTD BY 6177 MAKE 8822 MAINTD BY 6177 MAKE 8822 MAINTD BY 6177 MAKE 6177 MANUFACTURE 6079 MANUFACTURER 9742 MANUFACTURER 9742 MANUFACTURER DATE 9966 MASTER METRI ID 10494 MASTER METRI ID 9969 MATERIAL TYPE 7999 MATERIAL TYPE 9996 MATERIAL TYPE 6300 MAX FILTARTN 6301 MAX KVAR 6302 MAX KVAR 6303 MAX VOLT 6304 MAX VOLTAGE 5319 MAX VOLT 6305 MAX PRESSURE 6306 MAX VOLTAGE 5319 MAX VOLTAGE 5319 MAX VOLTAGE 5319 MAX VOLTAGE 5328 MAXINO ID 5435 MAXINO ID	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH 24"MH Manufacturer Manufacturer MAUVACTURER DATE Master Meter ID Street Nole Material Type Material Type PORCELAIN Maximum CFM Maximum CFM Maximum Voltage Maxi	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN TO WER 6177 MARE 6297 MAINTD BY 6177 MARE 8822 MANHOLE 6181 MAUF 7110 MANUFACTURE 9742 MANUFACTURER 9743 MANUFACTURER 9744 MANUFACTURER 9745 MANUFACTURER 9745 MANUFACTURER 9746 MATERIAL 9966 MATERIAL 9969 MATERIAL 9969 MATERIAL 9969 MATERIAL TYPE 9999 MATERIAL TYPE 9990 MATERIAL TYPE 6300 MAX AWB TEMP 6300	MAIN MEMORY (KB) Main Amory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Street Pole Material Type Material Type PORCELAIN Material Type Maximum Ambient Temperature Maximum Filtration Fiar Gas Max Heat Release Maximum Voltage max voltage Maximum Voltage Maximum Voltage Maximum INE ON FULL TANK Motor Control Center Type	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C	
6/296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN TO WER 6177 MAKE 8222 MAINTO BY 6177 MAKE 8822 MAINTO BY 6177 MAKE 8822 MANUFOLE 6116 MANUF 7.110 MANUFACTURE 6079 MANUFACTURER 9742 MANUFACTURER 9743 MANUFACTURER DATE 9066 MASTER METER ID 10494 MATERIAL TYPE 70900 MATERIAL TYPE 6300 MAX FILTRATN 6301 MAX AVAR	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Master Meter ID Street Pole Material Type PORCELAIN Material Type Material O Construction Maximum Ambient Temperature Maximum Valtage Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum Voltage Maximum Run Time On FULL TANK Motor Control Center Type Maling City <t< td=""><td>NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td>C C PSI KV KV KW</td><td></td></t<>	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C PSI KV KV KW	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN DEWORY KB 6297 MAINTD BY 6377 MAKE 8822 MARPONDEL 8822 MARPONDEL 8822 MARPONDEL 8122 MARPONDEL 8122 MARPONDEL 8122 MARPONDEL 8122 MARPONDEL 6116 MARUF 6117 MANUFACTURE 6079 MANUFACTURER 9742 MANUFACTURER DATE 9906 MASTER METRI ID 10494 MASTER METRI ID 9906 MATERIAL TYPE 7999 MATERIAL TYPE 7999 MATERIAL TYPE 9996 MATERIAL TYPE 9996 MATERIAL TYPE 9996 MATERIAL TYPE 9996 MATERIAL TYPE 6300 MAX FUTART 6301 MAX AMB TEMP 6302 MAX KAR 6303 MAX KVAR 6304 MAX VOLT 6305 MAX VOLT 6306 MAX VOLT 6307 MAX KVAR 5358 MAXINO ID 5457 MAX NON ID 5458 MAXINO ID 5459 MAXINO ID 5450 MAXRUN	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24"MH 24"MH Manufacturer Manufacturer MAUVACTURER DATE Master Meter ID Street Nole Material Type Material Type PORCELAIN Material Type Maximum Ambient Temperature Maximum Kars Maximum Voltage Maximum Nolent Con FU	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C PSI KV KV KW	
6296 MAIN DRIVER 9026 MAIN MEMORY 8221 MAIN POWER 10482 MAIN TO WER 6377 MAINTD BY 6377 MARE 8822 MAINTD BY 6177 MARE 8822 MANHOLE 6116 MANUF 7110 MANUFACTURE 9742 MANUFACTURER 9743 MANUFACTURER 9744 MANUFACTURER 9745 MANUFACTURER 9745 MANTERIAL 9745 MANTERIAL 9745 MANTERIAL 9745 MAX AMB 6300 MAX FERIAL 9630 MAX ENA 9630 MA	MAIN MEMORY (KB) Main Memory (KB) Maintained By MAKE 24*MH 24*MH Manufacturer Manufacturer MANUFACTURER DATE Master Meter ID Street Pole Material Type Material Type PORCELAIN Material Type Materials of Construction Maximum Ambient Temperature Maximum CFM Maximum Voltage Maximum Voltage max voltage max voltage Maximum Voltage Maximulu RUM TIME ON FULL TANK	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	C C PSI KV KV KW	

9242 METER VOLTAGE	Meter Operating Voltage	NUMERIC	VOLTS		
10500 METER CLASS	Meter Style # or Style Name	ALN			
10502 METER DEVICE ID	Meter Device Identification	ALN			
10504 METER FORM	Meter Physical Arrangement	ALN			
10506 METER MFG	Meter Manufacturer	ALN			
10508 METER MULTIPLIER	Meter Multiplier in Meter	ALN			
10510 METER SERIES	Meter Series	ALN			
10512 METER TYPE	METER TYPE	ALN			
10514 METER VOLTAGE	Meter Operating Voltage	ALN			
9502 MFG	MANUFACTURER	ALN			
6307 MFG YEAR	Manufactured Year	ALN			
6247 MFG. DATE	MANUFACTURER DATE	ALN			
6118 MFGD	MFGD	ALN			
6063 MFR	Manufacturer	ALN			
6308 MGV MFG	Main Gas Valves Manufacturer	ALN			
6309 MGV MODEL	Main Gas Valves Model	ALN			
6310 MGV NO VLV	Main Gas Valves Number of Valv	ALN			
6311 MGV SIZE					
	Main Gas Valves Size	ALN			
8006 MH_TYPE	Manhole Type	ALN			
5550 MILE	Miles	ALN			
6312 MIN ILLUMNTN	Minimum Illumination	ALN			
9662 MINI CAMERA MFG	Mini Camera Manufacture	ALN			
9664 MINI CAMERA MODEL	Mini Camera Model	ALN			
9666 MINI CAMERA SER #	Mini Camera Serial Number	ALN			
8844 MINIMUM OPERATING WATER PRESSURE	Dynamic pressure	NUMERIC			
6313 MIXER TYPE	Mixer Type	ALN			
5464 MOBL-STATION	MOBILE OR STATIONARY UNIT	ALN			
8217 MODEL	MODEL	ALN			
6119 MODEL	MODEL				
		ALN			
6080 MODEL NO.	Model #	ALN			
7036 MODEL NUMBER		ALN			
6084 MODEL YEAR	MODEL YEAR	ALN			
6178 MODEL YR.	MODEL YEAR	ALN			
6314 MOMENTRY AMP	Momentary Amps	ALN			
6315 MONITOR DEVC		ALN			
	Monitoring Device Type				
10010 MONITORING EQUIPMENT PRESENT	Monitoring Equipment Present		Y/N		
6316 MOTOR	Motor	ALN			
5487 MOTOR FED BY	Motor Fed By	ALN			
6317 MOTOR HP	Motor Horsepower	ALN			
8852 MOTOR MANUFACTURER		ALN			
5616 MOTOR MOD NO	Motor Model No.	ALN			
5593 MOTOR RATING	Motor Rating	ALN			
8854 MOTOR SERIAL NO		ALN			
6318 MOTOR SIZE	Motor Size (HP)	ALN			
6319 MOTOR SPEED	Motor Speed	ALN			
6320 MOTOR TYPE	Motor Type	ALN			
6321 MOTR HTR TYP	Motor Heater Type	ALN	N	MOTOR HEATER TYPE	
7088 MOUNTING ANGLE FROM VERTICAL		ALN			
6120 MSEAL	MSEAL	ALN			
6120 MSEAL	MSEAL Mailing State	ALN			
10044 M-STATE	Mailing State	ALN			
10044 M-STATE 6322 MSTR RD MFG	Mailing State Master Radio Manufacturer	ALN			
10044 M-STATE	Mailing State	ALN			
10044 M-STATE 6322 MSTR RD MFG	Mailing State Master Radio Manufacturer	ALN			
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL	Mailing State Master Radio Manufacturer Master Radio Model Number Master Radio Serial Number	ALN ALN ALN ALN			
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SER 6325 MSTR RD VERS	Mailing State Master Radio Manufacturer Master Radio Model Number Master Radio Serial Number Master Radio Version	ALN ALN ALN ALN ALN			
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT	Mailing State Master Radio Manufacturer Master Radio Evrail Number Master Radio Version Master Radio Version Motor Heater Voltage	ALN ALN ALN ALN ALN ALN			
10044 M-STATE 6322 MST R D MFG 6323 MST R D MOD 6324 MST R D SERL 6325 MST R D VERS 6326 MT HTR VOLT 6327 MTR HTR WATT	Mailing State Master Radio Monufacturer Master Radio Nodel Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Wattage	AIN AIN AIN AIN AIN AIN AIN			
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD	Mailing State Master Radio Manufacturer Master Radio Evrial Number Master Radio Version Motor Heater Voltage Motor Heater Wattage MTU BADER NUMBER TO ADD	ALN ALN ALN ALN ALN ALN ALN ALN			
10044 M-STATE 6322 MST R D MFG 6323 MST R D MOD 6324 MST R D SERL 6325 MST R D VERS 6326 MT HTR VOLT 6327 MTR HTR WATT	Mailing State Master Radio Monufacturer Master Radio Nodel Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Wattage	AIN AIN AIN AIN AIN AIN AIN		/ES/NO	
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD	Mailing State Master Radio Manufacturer Master Radio Evrial Number Master Radio Version Motor Heater Voltage Motor Heater Wattage MTU BADER NUMBER TO ADD	ALN ALN ALN ALN ALN ALN ALN ALN	Y	res/no	
10044 M-STATE 6322 MSTR RD MGG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WAIT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER	Mailing State Master Radio Manufacturer Master Radio Model Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor GenumBer TO ADD MTU BADGE NUMBER TO REMOVE	ALN ALN ALN ALN ALN ALN ALN ALN ALN			
10044 M-STATE 6322 MSTR RD MGG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER 8324 MTU_PORT_NUM_ADD	Mailing State Master Radio Manufacturer Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU ID Number MTU PORT NUMBER TO ADD	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		/ES/NO MTU_PORT_NUM	
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMADD	Mailing State Master Radio Manufacturer Master Radio Model Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU ID Number MTU PORT NUMBER TO ADD MTU PORT 1 Number	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
10044 M-STATE 6222 MSTR RD MGG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR WAIT 6327 MTR HTR WAIT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER 8324 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER	Mailing State Master Radio Manufacturer Master Radio Model Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Moto Reater Wattage MTU BADGE NUMBER TO ADD MTU PADGE NUMBER TO ADD MTU PORT NUMBER TO ADD	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6322 MSTR RD MGG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_REMOVE 7542 MTU_DO,NUMBER 8324 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 5753 MULTI MV90	Mailing State Master Radio Model Number Master Radio Model Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Wattage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU PORT NUMBER TO ADD	ALN	N		
10044 M-STATE 6222 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6325 MSTR NO VERS 6325 MTT WOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 5753 MULTI MY90 9804 MV90 TCP/IP	Mailing State Master Radio Model Number Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Motor Heater Voltage Motor Heater Voltage Motor Bater Oktowe MTU BADGE NUMBER TO REMOVE MTU ID Number MTU ID Number MTU PORT I Number MTU PORT I Number MTU PORT I Number MTU PORT I Number MULTI Mv90 Mv90 TCP/IP	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6322 MST R D MFG 6323 MST R D MDD 6324 MST R D SERL 6325 MST R D VERS 6326 MT HT VOLT 6327 MTR HTR WAITT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_DNUMBER 8324 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 5753 MULTI MV90 98004 MV90 TCP/IP	Mailing State Master Radio Model Number Master Radio Model Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Wattage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU PORT NUMBER TO ADD	ALN	N		
10044 M-STATE 6222 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6325 MSTR NO VERS 6325 MTT WOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 5753 MULTI MY90 9804 MV90 TCP/IP	Mailing State Master Radio Model Number Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Motor Heater Voltage Motor Heater Voltage Motor Bater Oktowe MTU BADGE NUMBER TO REMOVE MTU ID Number MTU ID Number MTU PORT I Number MTU PORT I Number MTU PORT I Number MTU PORT I Number MULTI Mv90 Mv90 TCP/IP	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6322 MSTR R0 MFG 6323 MSTR R0 MFG 6324 MSTR R0 SERL 6325 MSTR R0 VERS 6326 MT HTR V0LT 6327 MTH HTR V0LT 6327 MTH HTR WATT 8328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7545 MULTI MV90 9804 MV90 TCP/IP 10516 MV90 TCP/IP	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU DORT NUMBER TO ADD MTU PORT NUMBER MULTI MV90 MUSO TCP/IP MULLION VOLT AMPS	ALN	N		
10044 M-STATE 6222 MSTR RD MG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6325 MT HT VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_BER 5753 MULTI MV90 9804 MV90 TCPIP 10516 MV90 TCPIP 7042 MVA 6328 MWY HATCH SZ	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Serial Number TO ADD MTU BADGE NUMBER TO REMOVE MTU ID Number MTU PORT NUMBER TO ADD MTU PORT X NUMBER MILLIN VOID X ANDER MUTI MY90 MULUN VOLT AMPS Malusy Hatch Size	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6222 MSTR RD MOD 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR WAIT 6327 MTR HTR WAIT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 5753 MULTI MYO 9804 MV50 TCP/P 10516 MV50 TCP/P 10516 MV50 TCP/P 10528 MW4 HATCH SZ 6328 MW4 HATCH SZ 6329 MX ALL PRSR	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU PORT NUMBER TO ADD MULTI MY90 MULTI MY90 MULTI MY90 MULTI MY90 MULDI N VOLT AMPS Manway Hatch Size Maximu Allowable Pressure	ALN	N		
10044 M-STATE 6322 MSTR RD MG 6323 MSTR RD MOD 6324 MSTR RD MOD 6325 MSTR RD VERS 6326 MSTR RD VERS 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTL BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUMABER 8324 MTU_PORT_NUMBER 7544 MTU_PORT_NUMBER 7545 MUTI MUSO 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7042 MA 6328 MKU HATCH SZ 6329 MX ALL PRSSR 6330 MK SLT SPEED	Mailing State Master Radio Model Number Master Radio State Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MU Da DAGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU Dorn Number MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MUTU TO TO TOP MUTU NYOD MUY90 TCP/IP MUNOU TCAMPS Maximum Allowable Pressure Maximum Beit Speed	ALN	N		
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6325 MSTR NO VERS 6325 MT HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_ADD 8324 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7546 MTU_PORT_NUMBER 5753 MULTI NY90 9804 MV90 TCP/P 10516 MV90 TCP/P 7042 MVA 6328 MWY HATCH SZ 6330 MX ALL PRSSR 6330 MX BLT SPEED 6331 MX CS P	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Serial Number TO ADD MTU BADGE NUMBER TO ADD MTU DANDER TO REMOVE MTU DO Number MTU PORT NUMBER TO ADD MUTI NOT Z Number MULTI MV90 MV90 TCP/IP MILLION VOLT AMPS Maximum Allowable Pressure Maximum Belt Speed Maximum Belt Speed Maximum Casing Pressure	ALN	N		
10044 M-STATE 6222 MSTR RD MOD 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR WAIT 8322 MTL_BADGE_NUM_ADD 8328 MTL_BADGE_NUM_REMOVE 7542 MTL_PORT_NUM_ADD 8324 MTL_PORT_NUM_BER 7546 MTL_PORT_NUMBER 7546 MTL_PORT_NUMBER 7546 MTL_PORT_NUMBER 7546 MTL_PORT_NUMBER 5753 MULTI MYO 9804 MV30 TCP/P 10516 MV30 TCP/P 10516 MV30 TCP/P 10536 MV30 MSLT SPEED 6331 MX CS P 6332 MX DHTR CS P	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU PORT NUMBER TO ADD MULTI MY90 MV90 TCPIP MULUN VOLT AMPS Mawany Hatch Size Maximum Belto Speed Maximum Casing Pressure Maximum Casing Pressure Maximum Casing Pressure Maximum Diameter Casing Pres	ALN ALN	N		
10044 M-STATE 6222 MSTR RD MG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6325 MSTR NO VERS 6325 MT WOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_ADD 8324 MTU_PORT_NUM_ADD 7540 MTU_PORT_NUM_ADD 7540 MTU_PORT_NUMBER 5753 MULTI MY90 9804 MV90 TCP/P 10516 MV90 TCP/P 10516 MV90 TCP/P 7042 MVA 6328 MWY HATCH SZ 6330 MK BLT SPEED 6331 MK CS P	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Serial Number TO ADD MTU BADGE NUMBER TO ADD MTU DANDER TO REMOVE MTU DO Number MTU PORT NUMBER TO ADD MUTI NOT Z Number MULTI MV90 MV90 TCP/IP MILLION VOLT AMPS Maximum Allowable Pressure Maximum Belt Speed Maximum Belt Speed Maximum Casing Pressure	ALN	N		
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MFG 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HT VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER 8324 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 5753 MULTI MY90 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7042 MVA 6328 MWY HATCH SZ 6320 MX BLT SPEED 6331 MX CS P	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU PORT NUMBER TO ADD MULTI MY90 MV90 TCPIP MULUN VOLT AMPS Mawany Hatch Size Maximum Belt Speed Maximum Casing Pressure Maximum Casing Pressure Maximum Casing Pressure Maximum Diameter Casing Pres	ALN ALN	N		
10044 M-STATE 6322 MST R D MG 6323 MST R D MOD 6324 MST R D SER 6325 MST R D VERS 6326 MST R O VERS 6327 MST R O VERS 6328 MST R D GEC, NUM_ADD 8329 MTU_BADGE_NUM_REMOVE 7542 MTU_BADGE_NUM_REMOVE 7542 MTU_DONT_NUMADD 7544 MTU_PORT_NUMABER 9575 MULTI MY90 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7042 MXA 6328 MX1 LPRSR 6330 MX ALL PRSR 6331 MX CS P 6333 MX INTRRPT A	Mailing State Master Radio Model Number Master Radio Version Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage Motor NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU DAT NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MTU Port 1 Number MUTU NYOD MUV90 TCP/IP MV90 TCP/IP Mustor Not State Maximum Belt Speed Maximum Casing Pressure Maximum Diameter Casing Pres Maximum Interrupting Amps	ALN	N		
10044 M-STATE 6222 MSTR RD MOD 6324 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6325 MSTR RV VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER 8324 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7548 MTU_PORT_NUMBER 5753 MULTI MY90 9804 MV90 TCP/P 10516 MV90 TCP/P 10516 MV90 TCP/P 10516 MV90 TCP/P 6328 MWY HATCH SZ 6329 MX ALL PRSSR 6331 MX SLT SPEED 6331 MX SLT SPEED 6331 MX SLT SPEED 6331 MX INTRRPT A 6334 MX OPER PRSS 6335 MX OPER TEMP	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU PORT NUMBER TO ADD MV90 TCPIP MULTI MV90 MV90 TCPIP MILLON VOLT AMPS Maximum Allowable Pressure Maximum Casing Pressure Maximum Destrating Pressure Maximum Operating Pressure Maximum Operating Temperature	ALN ALN	N		
10044 M-STATE 6322 MST R D MG 6323 MST R D MOD 6324 MST R D SER 6325 MST R D VERS 6326 MST R NO VERS 6327 MST R VURS 6328 MST R AD VERS 6329 MST R VOLT 6327 MST R NOL 6328 MST LBADGE_NUM_ADD 8328 MST LBADGE_NUM_REMOVE 7542 MST_BADGE_NUM_REMOVE 7543 MST_NUMADD 7544 MTU_PORT_NUMADD 7546 MST_PORT_NUMADD 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7042 MVA 6328 MST LSSR 6330 MS BLT SPEED 6331 MS INTREPT A 6333 MX OPER PRSS 6333 MX OPER PRSS 6334 MX OPER PRSS 6335 MX OPER TEMP 6334 MX OPER PRSS 6335 MX OPER TEMP 6334 MX OPER PRSS 6335 MX OPER TEMP 6335 MX OPER TEMP 6336 MX OPER TEMP 6336 MX OPER PRSS 6336 MX OPER TEMP 6336 MX OPER SS 6335 MX OPER TEMP 6336 MX OPER TEMP 6336 MX OPERSS <td>Mailing State Master Radio Model Number Master Radio Kodel Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage Motor NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU DADGE NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MTU Port 2 Number MUV90 TCP/IP MV90 TCP/IP Musyle Pressure Maximum Casing Pressure Maximum Operating Pressure Maximum Operating Temperature Maximum Operating Temperature</td> <td>ALN ALN ALN</td> <td>N</td> <td></td> <td></td>	Mailing State Master Radio Model Number Master Radio Kodel Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage Motor NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU DADGE NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MTU Port 2 Number MUV90 TCP/IP MV90 TCP/IP Musyle Pressure Maximum Casing Pressure Maximum Operating Pressure Maximum Operating Temperature Maximum Operating Temperature	ALN	N		
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD SERL 6325 MSTR ND VERS 6325 MSTR NO LT 6327 MSTR ND VERS 6328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 5753 MULTI MV90 9804 MV90 TCP/IP 10516 MVA0 6328 MV14ATCH SZ 6329 MXA LL PRSS 6330 MX ALL PRSS 6331 MX CS P 6333 MX INTRRPT A 6334 MX OPER PRSS 6335 MX OPER TEMP 6335 MX OPER TEMP 6335 MX OPER TEMP 6335 MX OPER TEMP 6337 MX PRULDIST	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Second	ALN ALN	N		
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MFG 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HT VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_REMOVE 7542 MTU_D_NUMBER 8324 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7548 MTU_PORT_NUMBER 5753 MULTI MYO 9804 MV90 TCP/P 10516 MV90 TCP/P 10516 MV90 TCP/P 10516 MV90 TCP/P 6328 MWY HATCH SZ 6329 MX ALL PRSSR 6330 MX BLT SPEED 6331 MX CS P 6333 MX INTRRFT A 6334 MX OPER TEMP 6335 MX OPER TEMP 6335 MX OPER TEMP 6335 MX OPER TEMP	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU PORT NUMBER TO ADD MV90 TCPIP MV90 TCPIP MULTI MV90 Maway Hach Size Maximum Casing Pressure Maximum Casing Pressure Maximum Interrupting Amps Maximum Operating Temperature Maximum Travel Distance (in) Maximum Travel Distance (in) <td>ALN ALN ALN</td> <td>N</td> <td></td> <td></td>	ALN ALN	N		
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD SERL 6325 MSTR RD VERS 6325 MSTR RD VERS 6325 MSTR RD VERS 6325 MSTR RD VERS 6327 MSTR RD VOLT 6328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7545 MULTI MV90 9804 MV90 TCP/IP 10516 MVA0 6328 MVY HATCH S2 6329 MVA AU PRSS 6330 MX BLT SPED 6331 MX C5 P 6333 MX INTRRPT A 6333 MX INTRPT A 6333 MX OPER TEMP 6335 MX OPER TEMP 6336 MX PRESSURES 6337 MX REVEN TEM	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Second	ALN ALN	N		
10044 M-STATE 6222 MSTR RD MGG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MT HTR VOLT 6327 MTR HTR WATT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_ID_NUMBER 8324 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7546 MTU_PORT_NUMBER 7548 MTU_PORT_NUMBER 5753 MULTI MYO 9804 MYO TCP/IP 10516 MYO TCP/IP 10517 MYO TCP/IP 10517 MYO TCP/IP 10517 MYO TCP/IP 10517 MYO TCP/IP 10518 MYO TCP	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU PORT NUMBER TO ADD MV90 TCPIP MV90 TCPIP MULTI MV90 Maway Hach Size Maximum Casing Pressure Maximum Casing Pressure Maximum Interrupting Amps Maximum Operating Temperature Maximum Travel Distance (in) Maximum Travel Distance (in) <td>ALN ALN ALN</td> <td>N</td> <td></td> <td></td>	ALN ALN	N		
10044 M-STATE 6322 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SER 6325 MSTR RD VERS 6326 MSTR RD VERS 6327 MSTR RD VERS 6328 MSTR RD VERS 6329 MSTR RD VERS 6320 MSTR RD VERS 6321 MSTR RD VERS 6322 MTU_BADE_NUM_ADD 8328 MTU_BADE_NUM_ADD 8324 MTU_PORT_NUM_ADD 7542 MTU_PORT_NUM_ADD 7543 MUTU PORT_NUMMER 5753 MUTI MY90 9804 MY90 TCP/IP 7054 MY00 9804 MY90 TCP/IP 7042 MA 6328 MWY HATCH SZ 6320 MK ALL PSSR 6330 MS INTRPET A 6331 MX OPER PSS 6333 MX OPER PSS 6333 MX OPER PSS 6333 MX TWO PES 6334 MX OPER TEMP	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Second	ALN ALN </td <td>N</td> <td></td> <td></td>	N		
10044 M-STATE 6321 MSTR RD MFG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MSTR RD VERS 6327 MTR NTR VOLT 6327 MTL RODE 8328 MTU_BADGE_NUM_ADD 8328 MTU_PORT_NUM_ADD 7540 MTU_PORT_NUM_ADD 7541 MTU_PORT_NUMAER 7543 MTU_PORT_NUMAER 7544 MTU_PORT_NUMAER 5755 MULT MV90 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7404 MSS 6328 MSL SPEED 6331 MX INTRSPT A 6333 MX OFER PRSS 6333 MX OFER TEMP 6333 MX OFER TEMP 6334 MX RESURES 6335 MX OFER TEMP 6336 MX RESURES 6337 MX TRU-DIST 6338 MX TRU-DIST 6338 MX SD MTR P </td <td>Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU PORT NUMBER TO ADD MUTI NOVOT AMPS MV90 TCPIP MULTI MV90 Mawimum Casing Pressure Maximum Destaing Pressure Maximum Derating Temperature Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Ere Casinge</td> <td>ALN ALN ALN <!--</td--><td>N</td><td></td><td></td></td>	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU PORT NUMBER TO ADD MUTI NOVOT AMPS MV90 TCPIP MULTI MV90 Mawimum Casing Pressure Maximum Destaing Pressure Maximum Derating Temperature Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Ere Casinge	ALN ALN </td <td>N</td> <td></td> <td></td>	N		
10044 M-STATE 6322 MST R D MG 6323 MST R D MOD 6324 MST R D SER 6325 MST R D VERS 6326 MT HT VOLT 6327 MST R D MOD 6328 MTL BADE, NUM, ADD 8328 MTL_BADE, NUM, ADD 8324 MTL_BADE, NUM, ADD 7542 MTL_PORT_NUM, ADD 7543 MUT_PORT_NUMAER 7555 MUT.IN VOIT 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7042 MVA 6328 MWY HATCH SZ 6330 MS BIT SPEED 6331 MX OFER PESS 6333 MX INTRRFT A 6334 MX OPER PESS 6335 MX OPER TEMP 6335 MX OPER TEMP 6336 MX OPER PESS 6337 MX TRAFT A 6338 MX YERSUBES 6337 MX TRAFT A 6338 MX XS DMTR P 10046 M-3P 7322 NAFA CODE 8338 MX COPE 6336 MX COPE 6337 MX TRAFT A 6338	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU DORT NUMBER TO ADD MTU PORT NUMBER TO ADD MUTO TOT X NUMBER MUND VOIT AMBY MUNSO TCP/P MWJON VOIT AMPS Mamway Hatch Size Maximum Allowable Pressure Maximum Derssures Maximum Operating Pressure Maximum Operating Pressure Maximum Operating Temperature Maximum Travel Distance (in) Maximum Texces Diameter Press Maimum Texces Diameter Press Maimum Texce Sing Ampere Nume Maximum Recess Diameter Press Maimum Taxee Distance (in) Maximum Texces Diameter Press Maimum Excess Diameter Press	ALN ALN </td <td>N</td> <td></td> <td></td>	N		
10044 M-STATE 6322 MSTR RD MPG 6323 MSTR RD MOD 6324 MSTR RD SERL 6325 MSTR RD SERL 6325 MSTR RD VERS 6326 MTW TWOLT 6327 MSTR RD VERS 6328 MTU_BADGE_NUM_ADD 8322 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUM_ADD 7545 MULTI NV90 9804 MV90 TCP/IP 10516 MVA 6328 MVY HATCH SZ 6339 MX ALL PRSSR 6330 MX BLT SPED 6331 MX CS P 6333 MX INTRRYT A 6333 MX OPER PESS 6333 MX OPER PESS 6333 MX OPER TEMP 6334 MX OPER PESS </td <td>Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU PORT Sumber MUTI TO YOUR SUMMER TO ADD MW30 TCPIP MULLIN W90 Mayant Stath Size Maximum Allowable Pressure Maximum Diameter Casing Pres Maximum Diameter Casing Pres Maximum Operating Pressure Maximum Operating Pressure Maximum Operating Temperature Maximum Tavel Distance (in) Maximum Excess Diameter Press Mailing Zip Code NaFA F Ieet Management Code Name Name of Equipment NAME OF Equip</td> <td>ALN ALN ALN <!--</td--><td>N</td><td></td><td></td></td>	Mailing State Master Radio Model Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU PORT Sumber MUTI TO YOUR SUMMER TO ADD MW30 TCPIP MULLIN W90 Mayant Stath Size Maximum Allowable Pressure Maximum Diameter Casing Pres Maximum Diameter Casing Pres Maximum Operating Pressure Maximum Operating Pressure Maximum Operating Temperature Maximum Tavel Distance (in) Maximum Excess Diameter Press Mailing Zip Code NaFA F Ieet Management Code Name Name of Equipment NAME OF Equip	ALN ALN </td <td>N</td> <td></td> <td></td>	N		
10044 M-STATE 6321 MSTR RD MGD 6323 MSTR RD MOD 6324 MSTR RD MOD 6325 MSTR RD VERS 6326 MSTR RD VERS 6327 MTR NTR VOLT 6327 MTR ND MOD 8328 MTU_BADGE_NUM_ADD 8328 MTU_PADGE_NUM_ADD 8324 MTU_PORTI_NUMADD 7542 MTU_PORTI_NUMABER 7543 MUTUPORTI_NUMBER 7544 MTU_PORTI_NUMBER 7545 MUTI MU90 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7042 MVA 6328 MKU SIT SPED 6331 MX INTRSP 6333 MX OFER PESS 6333 MX OFER PESS 6333 MX OFER TEMP 6334 MX INTRAPT A 6335 MX OFER TEMP 6336 MX PRESURES 6337 MX TRAPT A 6338 MX SINTRAPT 6336 MX TRU DIST <td>Mailing State Master Radio Model Number Master Radio Kodel Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MU DabGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MTU Port 2 Number MU VOT 7CP/P MUV00 TCP/P MILUD VOLT AMPS Maximum Belt Speed Maximum Diameter Casing Pressure Maximum Operating Pressure Maximum Operating Pressure Maximum Operating Pressure Maximum Resces Diameter Press Maximum Travel Distance (in) Maximum Tessures Maximerer Pr</td> <td>ALN ALN ALN</td> <td>N</td> <td></td> <td></td>	Mailing State Master Radio Model Number Master Radio Kodel Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MU DabGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MTU Port 2 Number MU VOT 7CP/P MUV00 TCP/P MILUD VOLT AMPS Maximum Belt Speed Maximum Diameter Casing Pressure Maximum Operating Pressure Maximum Operating Pressure Maximum Operating Pressure Maximum Resces Diameter Press Maximum Travel Distance (in) Maximum Tessures Maximerer Pr	ALN ALN	N		
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10044 M-STATE 6322 MSTR RD MPG 6323 MSTR RD VERS 6324 MSTR RD SERL 6325 MSTR RD VERS 6326 MTH TR WAIT 8322 MTU_BADGE_NUM_ADD 8322 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7542 MTU_PORT_NUMADD 7543 MULOPORT_NUMADD 7544 MTU_PORT_NUMBER 7555 MULTI MV90 960 MV90 961 MVA 6328 MV HATCH SZ 6330 MK NTRPTA 6331 MX CS P 6333 MK NTRPTA 6334<	Mailing State Master Radio Monifacturer Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO REMOVE MTU DO Number MTU PORT NUMBER TO ADD MUTI PORT NUMBER TO REMOVE MTU PORT NUMBER TO REMOVE MUTI VOST NUMBER TO REMOVE MUTI VOST NUMBER TO REMOVE MUTI NOST CPIP MULTI MV90 MV90 TCPIP MILLION VOLT AMPS Maximum Allowable Pressure Maximum Delt Speed Maximum Dating Pressure Maximum Diarging Pressure Maximum Operating Pressure Maximum Operating Temperature Maximum Travel Distance (in) Maximum Excess Diameter Press Maximum Excess Diameter <	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
1004 M-STATE 6322 MSTR R0 MPG 6323 MSTR R0 MOD 6324 MSTR R0 SERL 6325 MSTR R0 VERS 6326 MT HTR V0LT 6327 MSTR R0 ADD 8328 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_BORT_NUM_ADD 7543 MUT_PORT_NUMAER 8324 MTU_PORT_NUMAER 7545 MUT_NOP 9804 MV90 TCP/IP 10516 MV90 TCP/IP 7643 MTU_PORT_NUMABER 6328 MSU_BASK 6328 MSU_BASK 6330 MX BLT SPEED 6331 MX CSP 6333 MX INTRRPT A 6334 MK OPER PESS 6333 MX INTRRPT A 6334 MX OPER PESS 6335 MX OPER TEMP 6336 MX PRESURES 6337 MX OPER TEMP 6338 MX SDNTR P 10046 M-ZIP 7922 NAFA CODE 8338 MX SDNTR P 10046 MZ P 6333 MX INTRRPT A 6334 MX OPER PESS 6335 MX OPER TEMP 6336 MX PRESURES 6337 MX TRUE DST 6338 MX SDNTR P <t< td=""><td>Mailing State Master Radio Model Number Master Radio Strain Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU DORT NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MUV DOT 2001 MTU Port 1 Number MUV NOT AMPS Maximum Beit Speed Maximum Beit Speed Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Rest Speed Maximum Dersures Maximum Rest Speed <</td><td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td>N</td><td></td><td></td></t<>	Mailing State Master Radio Model Number Master Radio Strain Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU DORT NUMBER TO ADD MTU Port 1 Number MTU Port 1 Number MTU Port 1 Number MTU Port 2 Number MUV DOT 2001 MTU Port 1 Number MUV NOT AMPS Maximum Beit Speed Maximum Beit Speed Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Rest Speed Maximum Dersures Maximum Rest Speed <	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6322 MSTR RO MPG 6323 MSTR RO MOD 6324 MSTR RO MOD 6325 MSTR RO VERS 6325 MSTR RO VERS 6325 MSTR RO VERS 6326 MT HITR WAIT 8322 MTU_BADGE_NUM_ADD 8328 MTU_BADGE_NUM_REMOVE 7542 MTU_PORT_NUM_ADD 7544 MTU_PORT_NUMADD 7545 MUTUPORT_NUMAER 5753 MULT MY90 9804 MY90 TCP/P 7054 MVA 6328 MWY HATCH SZ 6329 MWY HATCH SZ 6330 MK DYS TSPED 6331 MX CS P 6332 MX ODRT PERSS 6333 MX OPER PESS 6333 MX OPER PESS 6333 MX OPER PESS 6335 MX OPER PESS 6336 MX PR 10046 M-2P 7922 NAFA CODE 8732 NAME	Mailing State Master Radio Monifacturer Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Motor Heater Voltage Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU BADGE NUMBER TO REMOVE MTU DORT NUMBER TO ADD MTU PORT NUMBER TO ADD MUTO STOPIP MULT NOT A Mumber MULT NOT A Mumber MULT NOT AMPS Matimum Self Speed Maximum Belt Speed Maximum Diameter Casing Pressure Maximum Derasting Pressure Maximum Derasting Pressure Maximum Derasting Temperature Maximum Pressure S Maximum Travel Distance (in) Maximum Recess Diameter Press Malling Zip Code NAFA Fleet Management Code Name Name of Equipment NAME OF EQUIP National Board Number NB # Does this meter belong to NEM program? Does this meter belong to NEM program? NEMA A	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6322 MSTR RD MPG 6323 MSTR RD VERS 6324 MSTR RD VERS 6325 MSTR NO VERS 6326 MSTR NO VERS 6327 MSTR NO VERS 6328 MTU_BADGE_NUM_ADD 8322 MTU_DORT_NUM_ADD 8323 MTU_PORT_NUM_ADD 7542 MTU_PORT_NUMADD 7544 MTU_PORT_NUMADD 7545 MULTI NYO 9754 MTU_PORT_NUMAER 5753 MULTI NYO 9804 MY90 6333 MX INTRYEN 6333 MX MX DRER	Mailing State Master Radio Monital Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO REMOVE MTU DO Number MTU PORT NUMBER TO ADD MUT VORT NUMBER TO REMOVE MTU PORT NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI NOP TO TA NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI NOP TO SUMMER MUTI NOP TO SUMMER MAWING TOPIP MULTI MV90 Mavim Set Speed Maximum Belt Speed Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Diameter Casing Press Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Exess Diameter Press Maximum Exess Diameter Press Maximum Resures Does this meter belong to NEM program? Does this meter belong to NEM pro	ALN ALN </td <td>N</td> <td></td> <td></td>	N		
10044 M-STATE 6322 MSTR RO MPG 6323 MSTR RO MOD 6324 MSTR RO VERS 6325 MSTR RO VERS 6326 MSTR RO VERS 6327 MSTR RO VERS 6328 MTU_BADGE_NUM_ADD 8322 MTU_BADGE_NUM_ADD 8323 MTU_BADGE_NUM_REMOVE 7542 MTU_PORTI_NUMADD 7543 MUTU NORTI_NUMBER 7546 MTU_PORTI_NUMBER 7546 MYD PORTI_NUMBER 9804 MV90 TCP/IP 10516 MY90 TCP/IP 7042 MVA 6328 MSU ALL PRSR 6330 MK BLT SPEED 6331 MK INTRRY A 6333 MK INTRRY A 6333 MK INTRRY A 6334 MK OPER PRSS 6335 MK OPER PRSS 6336 MX PRESURES 6337 MK OPER PRSS 6338 MK SD MT P 10046 M-ZIP 722 NAPA <td>Mailing State Master Radio Model Number Master Radio Kotel Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MtU BADGE NUMBER TO ADD MTU BADGE NUMBER TO RADOVE MTU DADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU PORT NUMBER TO ADD MUTU NOT NUMBER TO ADD MUTU NOT X Number MUUN VOIT AMPS Maximum Bett Speed Maximum Bett Speed Maximum Casing Pressure Maximum Dameter Casing Pres Maximum Operating Pressure Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Exces Diameter Press Malling Zip Code NAFA Fleet Management Code Name of Equipment NAME OF EQUIP Name of Equipment NAME OF EQUIP NEMA Design NEMA Size Enclossure NEMA Type NEM</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>N</td> <td></td> <td></td>	Mailing State Master Radio Model Number Master Radio Kotel Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MtU BADGE NUMBER TO ADD MTU BADGE NUMBER TO RADOVE MTU DADGE NUMBER TO ADD MTU DADGE NUMBER TO ADD MTU PORT NUMBER TO ADD MUTU NOT NUMBER TO ADD MUTU NOT X Number MUUN VOIT AMPS Maximum Bett Speed Maximum Bett Speed Maximum Casing Pressure Maximum Dameter Casing Pres Maximum Operating Pressure Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Exces Diameter Press Malling Zip Code NAFA Fleet Management Code Name of Equipment NAME OF EQUIP Name of Equipment NAME OF EQUIP NEMA Design NEMA Size Enclossure NEMA Type NEM	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	N		
10044 M-STATE 6322 MSTR RD MPG 6323 MSTR RD VERS 6324 MSTR RD VERS 6325 MSTR NO VERS 6326 MSTR NO VERS 6327 MSTR NO VERS 6328 MTU_BADGE_NUM_ADD 8322 MTU_DORT_NUM_ADD 8323 MTU_PORT_NUM_ADD 7542 MTU_PORT_NUMADD 7544 MTU_PORT_NUMADD 7545 MULTI NYO 9754 MTU_PORT_NUMAER 5753 MULTI NYO 9804 MY90 6333 MX INTRYEN 6333 MX MX DRER	Mailing State Master Radio Monital Number Master Radio Serial Number Master Radio Serial Number Master Radio Serial Number Master Radio Version Motor Heater Voltage Motor Heater Voltage MTU BADGE NUMBER TO ADD MTU DADGE NUMBER TO REMOVE MTU DO Number MTU PORT NUMBER TO ADD MUT VORT NUMBER TO REMOVE MTU PORT NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI NOP TO TA NUMBER TO REMOVE MUTI VORT NUMBER TO REMOVE MUTI NOP TO SUMMER MUTI NOP TO SUMMER MAWING TOPIP MULTI MV90 Mavim Set Speed Maximum Belt Speed Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Diameter Casing Pressure Maximum Diameter Casing Press Maximum Travel Distance (in) Maximum Travel Distance (in) Maximum Exess Diameter Press Maximum Exess Diameter Press Maximum Resures Does this meter belong to NEM program? Does this meter belong to NEM pro	ALN ALN </td <td>N</td> <td></td> <td></td>	N		

6349 NO OF BUCKET	Number of Buckets	ALN			
	Number of Burners	ALN			
	Number of Cabinets	ALN			
	Number of Cells	ALN			
	Number of Compressor Motors	ALN			
	Number of Compressors	ALN			
	Number of Diffusers	ALN			
6355 NO OF DOORS	Number of Doors	ALN			
6356 NO OF FANS	Number of Fans	ALN			
6357 NO OF FILTRS	Number of Filters	ALN			
	Number of Fixtures	ALN			
	Number of Floors	ALN			
	Number of Fan Blades	ALN			
	Number Of Fountain(s)	ALN			
6362 NO OF GROVES	Number Of Groves	ALN			
6363 NO OF LIGHTS	Number of Lights	ALN			
6364 NO OF MOTORS	Number of Motors	ALN			
	Number of Poles	ALN			
	Number of Racks	ALN			
	Number of Sections	ALN			
	Number of Sinks	ALN			
6369 NO OF STAGES	Number of Stages	ALN			
6370 NO OF STALLS	Number of Stalls	ALN			
6371 NO OF TAPS	Number of Taps	ALN			
6372 NO OF TRANSF	Number of Transformer(s)	ALN			
	Number of Turns	ALN			
	Number of Vanes	ALN			
	Number of Windows	ALN			
	Number of Wires	ALN			
	Number of Parking Spaces	ALN			
5729 NO. CIRCUIT	Number of Circuits	ALN			
5697 NO. OF BATT	Number of Batteries	ALN			
	Number of Poles	ALN			
	# of Turns Open/Close	ALN			
		ALN			
	Pulse Number				
	NUMBER OF SECTIONS	ALN			
	Node Material	ALN			
8008 NODE_STATUS	Node Status	ALN			
8010 NODE_TYPE	Node Type	ALN			
	Nominal Eff Rating	ALN			
		ALN			
	Note				
	Comments	ALN			
	NPSH	ALN			
6379 NPSHA	NPSHA	ALN			
6380 NXT CERT DT	Next Certification Date	ALN			
5587 O & M MANUAL	O & M Manual	ALN			
	O Ring Material	ALN			
	0kM				
6122 O&M		ALN			
	O&M Manual	ALN			
5534 O&M MANUEL	o&m manual	ALN			
5534 O&M MANUEL					
5534 O&M MANUEL 6382 O2 TRANS CAP	o&m manual	ALN			
5534 0&M MANUEL 6382 02 TRANS CAP 7646 OBJSTRUC	o&m manual Oxygen Transfer Capacity Interface Object Structure	ALN ALN ALN			
5534 O&M MANUEL 6382 OZ TRANS CAP 7646 OBISTRUC 5384 OCCUPANCY	o&m manual Oxygen Transfer Capacity Interface Digitet Structure Building Occupancy	ALN ALN ALN ALN		OCCURRENCE TYPE	
5534 O&M MANUEL 6382 OZ TRANS CAP 7646 OBJSTRUC 5834 OCCUPRENCY 6942 OCCURRENCE_TYPE	o&m manual Oxygen Transfer Capacity Interface Object Structure Biuliding Occupancy Occurrence Type	ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 08.M MANUEL 6382 02 TRANS CAP 7666 0815TUC 5534 OCCUPANCY 6942 OCCURRENCE_TYPE 7142 OCPD	o&m manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type Occurrence Type	ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 O&M MANUEL 6382 OZ TRANS CAP 646 OBISTRUC 5834 OCCUPRENCE_ 6942 OCCURRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE	o&m manual Oxygen Transfer Capacity Interface Diglet Structure Building Occupancy Occurrence Type Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY	ALN ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 O&M MANUEL 6382 OZ TRANS CAP 7646 OBISTRUC 5834 OCCURRENCE_TYPE 7442 OCCURRENCE_TYPE 7422 OCPD 7344 OCPD & SIZE 6123 OFILT	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSE_A, BREAKER_A, RELAY OFILT	ALN ALN ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 0&M MANUEL 6382 02 TRANS CAP 646 0BISTUC 5534 0CCUPANCY 6942 0CCURRENCE_TYPE 7342 0CPD 7394 0CPD & SIZE 6123 0FILT 6123 0FILT 6124 0FMC	o&m manual Owgen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 O&M MANUEL 6382 OZ TRANS CAP 646 OBISTRUC 5834 OCCUPRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE 6123 OFILT 6124 OFMC 6124 OFMC	o&m manual Oxygen Transfer Capacity Interface Diglet Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILC OFLC OL CAPACITY	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 O&M MANUEL 6382 OZ TRANS CAP 646 OBISTRUC 5834 OCCUPRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE 6123 OFLIT 6124 OFMC 5680 OIL	o&m manual Owgen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE	
5534 O&M MANUEL 6382 OZ TRANS CAP 7646 (DBISTRUC 5834 OCCURRENCE_TYPE 7142 OCPD 7142 OCPD 7034 OCPD & SIZE 6123 (OFILT 6124 OFMC 6125 OIL FITER #	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSE _A, RERAKER _A, RELAY OFILT OFMC OUL CAPACITY OIL CAPACITY OIL FILTER NO.	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
533 (0&M MANUEL 6382 02 TRANS CAP 646 OBISTUC 5343 (OCLUPANCY 6942 (OCLUPANCY 7342 OCPD 7342 OCPD 7343 (OCPD & SIZE 6123 OFILT 6124 OFMC 5468 (0IL 6185 (0IL FITR #) 6383 (0IL INTRCPTR	o&m manual Oxygen Transfer Capacity Interface Diglet Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILC OFLC OL CAPACITY	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		OCCURRENCE_TYPE YES/NO	
5534 O&M MANUEL 6382 OZ TRANS CAP 646 OBISTRUC 5834 OCCUPRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE 7034 OCPD & SIZE 7034 OCPD & SIZE 7036 OIL 7036 OIL 5468 OIL 5488 OIL FTER # 5383 OIL INFER # 5888 OIL LEVEL	o&m manual Oxygen Transfer Capacity Interface Diglet Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OIL CAPACITY OIL FLTER NO, OII Interceptors Y/N	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5534 O&M MANUEL 6382 Q2 TRANS CAP 646 (DISTRUC 5834 OCCURENCE_TYPE 7142 OCPD 7142 OCPD 7142 OCPD 7142 OCPD 7142 OCPD 7142 OCPD 6125 OILT 6124 OFMC 6126 OIL 6125 OIL FITER # 6383 OIL LYTECPTR 5880 OIL LYTEL 5890 OIL TEMP	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, REAKEA, RELAY OFILT OFILC OIL CAPACITY OIL CAPACITY OIL FILTER NO. OIL Interceptors Y/N OIL Temp OII Temp	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
533 0&M MANUEL 6382 02 TRANS CAP 646 0BJSTUC 5330 OCCUPANCY 6402 OCCUPRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE 6123 0FILT 6124 0FMC 6126 0IL 6185 0IL FTR # 6383 0LI NITKCPTR 5888 0LL LEVEL 5880 00 LLEVEL 5880 00 LLEVEL 5880 00 LLEVEL	o&m manual Oxygen Transfer Capacity Interface Diglet Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OIL CAPACITY OIL FLTER NO, OII Interceptors Y/N	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5534 O&M MANUEL 6382 OZ TRANS CAP 6384 OCCUPANCY 5834 OCCUPRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE 6123 OFLIT 6124 OFMC 5488 OIL 5488 OIL 5488 OIL LEVEL 5889 OIL LEVEL 5890 OIL TEMP 5618 OIL TYPE	o&m manual Oxygen Transfer Capacity Interface Diglect Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL CAPACITY OIL FLITER NO. OII Interceptors Y/N OII Temp OII Type	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5534 O&M MANUEL 6382 D2 TRANS CAP 646 D0ISTRUC 5834 OCCUPRENCE_TYPE 7142 OCPD 7142 OCPD 7142 OCPD 7142 OCPD 6123 OFLIT 6124 OFMC 6468 OIL 6185 OIL IFTER # 6383 OIL INTRCPTR 5888 OIL LEVEL 5990 OIL TYPE 5922 OILTEMPH 5624 OL PROTECT	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, REAKERA, RELAY OFILT OFILT OFILT OFILT OFILTE NO. OIL CAPACITY OIL FLITER NO. OII Interceptors Y/N OII Flitter NO. OII Interp OII Type Overload Protection	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
533 Q&M MANUEL 6382 QJ TRANS CAP 6382 QJ TRANS CAP 646 QBJSTRUC 5834 QCCURRENCE_TYPE 7142 QCPD 7034 QCPD & SJZE 6123 QFILT 6124 QFNC 5880 UL LYEL 5880 UL LVEL 5880 QL LEVEL 5880 UL TYPE 5880 UL LYEL 5880 UL TYPE 5880 UL TYPE 5880 UL TYPE 5880 UL TYPE 5820 UL TEMPH 5624 QL ROTECT 5620 QL DUTEMPHH 5624 QL ROTECT 5620 QL DUTEN MMEER	o&m manual Oxygen Transfer Capacity Interface Digits Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFILT OFILT OIL FLARACITY OIL OIL FLARACITY OIL FLARACITY OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5534 O&M MANUEL 6382 OZ TRANS CAP 6384 OZCUPRENCE_TYPE 7442 OCPD 7034 OCPD & SIZE 6123 OFLIT 6124 OFLC 5488 OIL 6383 OIL FITER # 6383 OIL INTERF 5488 OIL LEVEL 5489 OIL LEVEL 5480 OIL TEMP 5518 OIL TYPE 5522 OIL TEMP 5523 OIL TYPE 5544 OP NOTECT 5524 OP NOTECT 5524 OL METER NUMBER 5544 OP CONTION	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, REAKERA, RELAY OFILT OFILT OFILT OFILT OFILTE NO. OIL CAPACITY OIL FLITER NO. OII Interceptors Y/N OII Flitter NO. OII Interp OII Type Overload Protection	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
5534 O&M MANUEL 6382 OZ TRANS CAP 6384 OZCUPRENCE 5834 OCCURENCE_TYPE 7424 OCPD 7034 OCPD & SIZE 6123 OFLT 6124 OFMC 5488 OIL 5488 OIL 5488 OIL 5488 OIL LEVEL 5898 OIL LEVEL 5898 OIL LEVEL 5892 OIL TEMP 5893 OIL TEMP 5894 OL DENOTECT 5892 OL TEMPHI 5624 OP COMTON	o&m manual Oxygen Transfer Capacity Interface Digits Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFILT OFILT OIL FLARACITY OIL OIL FLARACITY OIL FLARACITY OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
S534 Q&M MANUEL G382 QZ TRANS CAP G46 QBISTUC S534 QCUPANCY G42 QCUPRENCE_TYPE 7142 OCPD 7034 OCPD & SIZE G122 OFLIT G124 OFMC S680 OL G1855 OL FITER # S683 OL LEVEL S680 OL TEMPH S6124 OP NOTECT S624 OP NOTECT S638 OP CONDITION G438 OP CONDITION	o&m manual Oxygen Transfer Capacity Interface Diplet Structure Building Occupancy Occurrence Type OverAcURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFILT OFILT OFILT OIL CAPACITY OIL FITER NO. OII Interceptors Y/N OII Interceptors Y/N OII Temp OII Type OVerAcURRENT OII Comparison OVerAcURRENT OII Comparison OVerAcURRENT OVerAda Protection OII de Meter Number OVeradia Conditions	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
533 Q&M MANUEL 6382 QJ TRANS CAP 6382 QJ TRANS CAP 6364 QBJSTRUC 5334 QCCUPRENCY 6342 QCCURRENCE_TYPE 7142 QCPD 7034 QCPD & SIZE 6123 QFILT 6124 QFMC 5486 QU LIVEL 5480 QU LIVEL 5880 QU LIVEL 5880 QU LIVEL 5880 QU LIVEL 5880 QU LIVENPH 5624 QL PROTECT 5020 QU DIRER NUMBER 6384 QPE CARQL 6385 QPE LI CREQ 5884 QPERATEVALVE	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRet PROT DEVICE TYPE & AMP FUSEA, RELAY OFINC OFINC OFINC OL CAPACITY OL CAPACITY OL FLITER NO. Oll Interceptors Y/N Oll Temp Oll Type Overload Protection Old Meter Number Operator License Required	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
5534 O&M MANUEL 6382 DZ TRANS CAP 6382 DZ TRANS CAP 6384 DCCUPANCY 6384 OCCURENCE_TYPE 7142 OCPD 7034 OCPD & SIZE 6123 OFLIT 6124 OFLC 6385 OIL FTER # 6383 OIL NOTCT 5888 OIL LEVEL 5890 OIL TEMP 58210 ITTPE 5832 OIL NOTCT 5833 OIL NOTENT 5843 OIL ONTON 5844 OP CONTION 5835 OPER TEVER 5843 OP CONTION 5835 OPER TEVER 5843 OP CONTION 5835 OPER TEVER 5840 OPENTER 5835 OPER TEVER 5836 OPER TEVER </td <td>o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRet PROT DEVICE TYPE & AMP FUSEA, RELAY OFINC OFINC OFINC OL CAPACITY OL CAPACITY OL FLITER NO. Oll Interceptors Y/N Oll Temp Oll Type Overload Protection Old Meter Number Operator License Required</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>DEG</td> <td>YES/NO YES/NO</td> <td>DEGREES</td>	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRet PROT DEVICE TYPE & AMP FUSEA, RELAY OFINC OFINC OFINC OL CAPACITY OL CAPACITY OL FLITER NO. Oll Interceptors Y/N Oll Temp Oll Type Overload Protection Old Meter Number Operator License Required	ALN	DEG	YES/NO YES/NO	DEGREES
SS34 Q&M MANUEL G382 QZ TRANS CAP G382 QZ TRANS CAP G46 QBISTUC S343 GCUPANCY G462 QECURRENCE_TYPE 7142 OCPD 7034 OCPD & SZE G123 OFLIT G124 OFL G123 OFLIT G124 OFL G125 OFLIT G126 OFL G127 OFL G128 OFLIT G129 OFLIT G129 OFLIT G129 OFLIT G129 OFLIT G129 OFLIT G120 OFLIT G121 OFLIT G122 OFLIT G129 OFLIT G129 OFLIT G120 OFTECT G120 OFTECT G120 OFLIT G120 OFLIT G120 OFLIT G120 <td>o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRet PROT DEVICE TYPE & AMP FUSEA, RELAY OFINC OFINC OFINC OL CAPACITY OL CAPACITY OL FLITER NO. Oll Interceptors Y/N Oll Temp Oll Type Overload Protection Old Meter Number Operator License Required</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>DEG</td> <td>YES/NO YES/NO</td> <td>DEGREES</td>	o&m manual Oxygen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRet PROT DEVICE TYPE & AMP FUSEA, RELAY OFINC OFINC OFINC OL CAPACITY OL CAPACITY OL FLITER NO. Oll Interceptors Y/N Oll Temp Oll Type Overload Protection Old Meter Number Operator License Required	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	DEG	YES/NO YES/NO	DEGREES
533 Q&M MANUEL 6382 QJ TRANS CAP 6382 QJ TRANS CAP 6384 QCCURRENCE_TYPE 7142 QCPD 7034 QCPD & SIZE 6123 QFLNT 6124 QFLNCY 6380 QL LOTEN 6380 QL RETEN UNMER 6381 QL PORTECT 6382 QL CONDITION 6384 QPERATINCS SYSTEM 10384 QPERATING SYSTEM	o&m manual Oxygen Transfer Capacity Interface Digits Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFILT OFILT OFILT OIL FUTTER NO. OIL ILTER NO. OIL ILTER NO. OIL ILTER NO. OIL Terup OVErload Protection OIL Type Operating Conditions Operator License Required Operate Valve 20% and Return to Previous Position	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	DEG VOLTS	YES/NO YES/NO	DEGREES
5534 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 6384 QCCUPRENCE_TYPE 7142 QCPD 7034 QCPD & SIZE 6123 OFLIT 6124 OFMC 6385 OIL 6185 OIL FTER # 6388 OIL LEVEL 5898 OIL LEVEL 5890 OI TEMP 5618 OI TEMP 5624 OFMC 5639 OI LEVEL 5890 OI LEMPH 5624 OFMC 5634 OP CONDITION 6384 OP CONDITION 6385 OPERATING SYSTEM 10184 OPERATING SYSTEM 10184 OPERATING TEMPURATURE 5566 OPERATING VITAGE	o&m manual Oxygen Transfer Capacity Interface Digits Structure Building Occupancy Occurrence Type OverAc-URRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL CAPACITY OIL CAPACITY OIL Interceptors V/N OIL Interceptors V/N OIL Interceptors V/N OIL Interceptors V/N OIL TOP OVerfoad Protection OIL downer Operator License Required Operate Valve 20% and Return to Previous Position Operaton Operaton	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
S534 Q&M MANUEL G382 QZ TRANS CAP G46 QBISTUC S534 QCUPANCY G46 QBISTUC S640 QCUPANCY G462 QBISTUC S642 QCUPRENCE_TYPE 7034 QCPD & SZE G123 GPLIT G124 OFMC S680 OL G185 QL FITER # G485 QL LITER # G483 OL LITER # G483 OL LITER # G484 QP CONDITION G585 OFE RIC FQ G584 QP CONDITION G585 OFE RIC FQ G184 OP CONDITION G585 GPE RIC RQ S784 OP CONDITION G585 GPE RIC RQ S784 OP CONDITION G585 GPE RIC RQ S784 GPE ATTING STSTEM G184 OPE RATING STSTEM G184 GPE RATING STSTEM G184 <	o&m manual Oxygen Transfer Capacity Interface Digitst Structure Building Occupancy Occurrence Type Over-CurReNT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OIL CAPACITY OIL CAPACITY OIL FLITER NO. OII Interceptors Y/N OIT Prop OIT Type Overload Protection OId Meter Number Operator Lones Required Operator Unes Required Operator Unes Required Operator Devices Required Operator Devices Required Operator Incerse Required Operator Lones Required Operator Incerse Requi	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
533 Q&M MANUEL 6382 QJ TRANS CAP 6382 QJ TRANS CAP 6384 QCUPANCY 5834 QCCURRENCE_TYPE 7142 QCPD 7034 QCPD & SIZE 6123 QFILT 6124 QFMC 5880 QL 6183 QL INTECTR 5880 QL LEVEL 5880 QL TEMPH 5624 QCP CONDITION 6384 QPERATING SYSTEM 6384 QERATING SYSTEM 6386 QPEND RN N	o&m manual Oxyen Transfer Capacity Interface Digits Structure Building Occupancy Occurrence Type Occurrence Type Over-CuRERNT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL FILTER NO. OIL INTER PROT OIL FILTER NO. OIL INTER PROT OIL FILTER NO. OIL INTER PROT OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
5534 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 6384 QCCUPRENCE_TYPE 7442 QCPD 7034 QCPD & SIZE 6123 OFLIT 6124 OFMC 6385 OIL 6124 OFMC 6388 OIL 6185 OIL FTER # 6383 OIL INFORT 5488 OIL LEVEL 5580 OIL TEMP 5582 OILTEMPHI 5524 OPNCT 55240 DPNCTET 55240 DPNCTET 55240 DPNCTET 55240 DPNCTENUMBER 55440 PCONDITION 63541 OPERATING SYSTEM 101842 OPERATING SYSTEM 101842 OPERATING SYSTEM 101842 OPERATING TEMPURATURE 5560 OPERATING TEMPURATURE 5560 OPERATING TEMPURATURE 5560 OPERATING TEMPURATURE	o&m manual Oxygen Transfer Capacity Interface Dipicet Structure Building Occupancy Occurrence Type OverAcURERKT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFLIT OFLIT OFLIT OFLIT OFLIT OIL CAPACITY OIL Interceptors V/N OIL Interceptors V/N OIL Interceptors V/N OIL Interceptors V/N OIL OIL FUTER NO. OIL Interceptors V/N OIL OIL FUTER NO. OIL OIL FUTER NO. OIL Interceptors V/N OIL OIL FUTER NO. OIL OIL FUTER NO. OIL OIL FUTER NO. OIL OIL FUTER NO. OIL Interceptors V/N OIL OIL FUTER NO. OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
5534 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 6384 QCCUPRENCE_TYPE 7442 QCPD 7034 QCPD & SIZE 6123 OFLIT 6124 OFMC 6385 OIL 6124 OFMC 6388 OIL 6185 OIL FTER # 6383 OIL INFORT 5488 OIL LEVEL 5580 OIL TEMP 5582 OILTEMPHI 5524 OPNCT 55240 DPNCTET 55240 DPNCTET 55240 DPNCTET 55240 DPNCTENUMBER 55440 PCONDITION 63541 OPERATING SYSTEM 101842 OPERATING SYSTEM 101842 OPERATING SYSTEM 101842 OPERATING TEMPURATURE 5560 OPERATING TEMPURATURE 5560 OPERATING TEMPURATURE 5560 OPERATING TEMPURATURE	o&m manual Oxyen Transfer Capacity Interface Digits Structure Building Occupancy Occurrence Type Occurrence Type Over-CuRERNT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL FILTER NO. OIL INTER PROT OIL FILTER NO. OIL INTER PROT OIL FILTER NO. OIL INTER PROT OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
533 Q&M MANUEL 6382 QX TRANS CAP 6382 QX TRANS CAP 646 QISTRUC 5343 QCUPANCY 6942 QCUPRENCE_TYPE 7142 QCPD 7334 QCPD & SZE 6123 GPLIT 6124 GPMC 6123 GPLIT 6185 OL INTROPT 5486 OL 6185 OL INTROPT 5880 OL INTROPT 5882 OL INTROPT 5882 OL INTROPT 5882 OP CONDITION 6383 OP CONDITION 6384 OP CONDITION 6385 OPE CATOR 5960 OPERATING SYSTEM 5960 OPERATING YOLTAGE 5960 OPERATING Y	o&m manual Oxygen Transfer Capacity Interface Digitst Structure Building Occupancy Occurrence Type Over-CurReKT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACTTY OIL FUTER NO. OIL FUTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL Type Overload Protection OId Meter Number Operating Conditions Operator Loces Required Operator Operator INTER Required Operator Type Operator Comes Required Operation Operator Inter Required Operation Operating	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
5334 O&M MANUEL 6382 D2 TRANS CAP 6382 D2 TRANS CAP 6384 DCCUPANCY 5834 OCCURENCE_TYPE 7144 OCPD 71740 OCPD & SIZE 61230 PILT 61240 PMC 5486 OL 6185 OL FITE # 61850 OL LEVEL 5880 OL ITEMP 5890 OL TEMP 5892 OL TEMPH 5923 OL ITEMPH 5924 OL PROTECT 59320 DU TERE NUMBER 6343 OP CONDITION 6344 OPERATING SYSTEM 10344 OPERATING SYSTEM 10344 OPERATING SYSTEM 10344 OPERATING SYSTEM 10342 OPERATING SYSTEM 10342 OPERATING SYSTEM 10344 OPERATING SYSTEM 10345 OPERATING SYSTEM 10366 OPEND BR 10370 OPERATING SYSTEM 10380 OPERATING SYSTEM 10381	o&m manual Oxygen Transfer Capacity Interface Dipicet Structure Building Occupancy Occurrence Type OverAcURERKT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFLIT OFLIT OFLIT OFLIT OFLIT OIL CAPACITY OIL Interceptors V/N OIL Interceptors V/N OIL Interceptors V/N OIL Interceptors V/N OIL OIL FUTER NO. OIL Interceptors V/N OIL OIL FUTER NO. OIL OIL FUTER NO. OIL Interceptors V/N OIL OIL FUTER NO. OIL OIL FUTER NO. OIL OIL FUTER NO. OIL OIL FUTER NO. OIL Interceptors V/N OIL OIL FUTER NO. OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
SS34 Q&M MANUEL GS42 QZURANS CAP GS42 QZURANS CAP SS43 GCUPANCY SS44 CCUPANCY G942 OCCURRENCE_TYPE 7142 OCPD & SIZE G123 OFLT G124 OFMC S480 OL G123 OFLT G124 OFMC S480 OL G123 OFLT S480 OL G124 OFMC S480 OL G123 OFLT S480 OL G124 OFMC S480 OL G125 OLTEMPH S5810 OLTEMPH S582 OLTEMPH G383 OPCONDITON G384 OPCONDITON G385 OPERTUS VISTAGE S880 OPERATINALSYET G380 OPERATINA SUTAGE S580 OPERATINA SUTAGE S580 OPERATINA SUTAGE S580 OPERATON S580	o&m manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRALT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILC OFIL	ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 ZTRANS CAP 6382 ZTRANS CAP 646 QISTRUC 5343 GCUUPANCY 6942 DCCURRNCE_TYPE 7142 OCPD & SIZE 6123 OFLIT 6124 OFMC 6123 OFLIT 6124 OFMC 6185 OIL ITRE # 6185 OIL ITRE # 6185 OIL ITRE # 6383 OIL ITRE # 6384 OIL TER # 6385 OFE ITRE # 6380 OIL TER # 6381 OIL TER # 6382 OIL TER # 6383 OIL TER # 6384 OFE ATTRE # 6385 OFE LIC RQ 8386 OFE ATTRE # 6381 OFE ATTRE # 6382 OFE ATTRE TER # 6383 OFE ATTRE # 6384 OFE ATTRE ATTRE 8385 OFE ATTRE TER # 6386 OFE ATTRE	o&m manual Oxyen Transfer Capacity Interface Digiet Structure Building Occupancy Occurrenc Type Occurrenc Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFMC OIL CAPACITY OIL FUTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TYPE OVER OLD REATING OVER OLD READING THE STRUCTURE STRUC	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
5334 O&M MANUEL 6382 D2 TRANS CAP 6382 D2 TRANS CAP 6384 DCCUPANCY 5834 OCCURENCE_TYPE 7144 OCPD & SIZE 6123 OFILT 6124 OFMC 5888 OIL 6185 OIL FITER # 6185 OIL INTECTR 5888 OIL INTER 5890 OIL TEMP 5892 OIL TEMP 5893 OIL INTECTR 5894 OIL TEMP 5895 OIL TEMP 5896 OIL TEMP 5897 OIL TEMP 5898 OP RUTER NUMBER 6384 OPERATING SYSTEM 10184 OPERATING SYSTEM 10185	o&m manual Oxyen Transfer Capacity Interface Dipicet Structure Building Occupancy Occurrence Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL FUTER NO. OIL INTER PROTO OIL FUTER NO. OIL INTER PROTO OIL FUTER NO. OIL INTER PROTO OIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
533 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 6382 QZ TRANS CAP 646 QBISTUC 5343 QCUPANCY 6942 QCUPRENCE_TYPE 7142 QCPD 7142 QCPD 7143 QCPD & SIZE 6123 QFLIT 6124 QFMC 5468 QL 6133 QL INTRCPTR 5488 QL LEVEL 5889 QL IETER # 6383 QL LEVEL 5890 QL TERP 5890 QERATENALSYES 5891 QER NON 5892 QER NON	okm manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type Occurrenc Type Over-CurReNT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OL LAPACITY OL LAPACITY OL ILTER NO. OL ILTER NO. OL ILTER NO. OL ITTR	ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 CALMANS CAP 6382 CALMANS CAP 646 QUSTRANS CAP 6384 CACUPANCY 6384 CACUPANCY 6384 CACUPANCY 7034 CCPD & SIZE 6123 OFLIT 6124 CPMC 6123 OFLIT 6138 OIL INTECTR 5880 OIL LEVEL 5880 OIL LEVEL 5890 OIL TEMPH 5824 LPROTECT 10520 OLD METER NUMBER 6384 OPERATING SYSTEM 10542 OPERATING SYSTEM 10542 OPERATING SYSTEM 10543 OPERATING SYSTEM 10544 OPERATING SYSTEM 10544 OPERATING SYSTEM 10545 OPERATING SYSTEM 10546 OPERATING SYSTEM 10547 OPE PND BRN 10548 OPERATING SYSTEM 10549 OPERATING SYSTEM 10540 OPERATING	okm manual Oxyen Transfer Capacity Interface Digiet Structure Building Occupancy Occurrenc Type Occurrenc Type OveR-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFMC OIL CAPACITY OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TO OVER OLUBRENT CONTROL OF TYPE OVER OLUBRENT OVER OLUBREN	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 6384 QCCUPRENCE_TYPE 7142 QCPD 7174 QCPD 7174 QCPD 7174 QCPD 7184 QCPD & SIZE 7184 QCRD & SIZE 7185 QLITKIP 7186 QLITKIPH 7185 QLITKIPH 7186 QCRD TOTON 7184 QERATING SYSTEM 7185 QERATING SYSTEM 7186 QERATING SYSTEM 7186 QERATING SYSTEM 7186 QERATING SYSTEM 7187 QERATING SYSTEM 7188 QERATING SYSTEM 7188 QERATING SYSTEM 71888 QERATING SYSTEM </td <td>okm manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type Occurrenc Type Over-CurReNT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OL LAPACITY OL LAPACITY OL ILTER NO. OL ILTER NO. OL ILTER NO. OL ITTR NO. OL ITTR</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>YES/NO YES/NO</td> <td>DEGREES</td>	okm manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type Occurrenc Type Over-CurReNT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OL LAPACITY OL LAPACITY OL ILTER NO. OL ILTER NO. OL ILTER NO. OL ITTR	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 CALMANS CAP 6382 CALMANS CAP 646 QUSTRANS CAP 6384 CACUPANCY 6384 CACUPANCY 6384 CACUPANCY 7034 CCPD & SIZE 6123 OFLIT 6124 CPMC 6123 OFLIT 6138 OIL INTECTR 5880 OIL LEVEL 5880 OIL LEVEL 5890 OIL TEMPH 5824 LPROTECT 10520 OLD METER NUMBER 6384 OPERATING SYSTEM 10542 OPERATING SYSTEM 10542 OPERATING SYSTEM 10543 OPERATING SYSTEM 10544 OPERATING SYSTEM 10544 OPERATING SYSTEM 10545 OPERATING SYSTEM 10546 OPERATING SYSTEM 10547 OPE PND BRN 10548 OPERATING SYSTEM 10549 OPERATING SYSTEM 10540 OPERATING	okm manual Oxyen Transfer Capacity Interface Digiet Structure Building Occupancy Occurrenc Type Occurrenc Type OveR-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFMC OIL CAPACITY OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TO OVER OLUBRENT CONTROL OF TYPE OVER OLUBRENT OVER OLUBREN	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 6384 QCCUPRENCE_TYPE 7142 QCPD 7174 QCPD 7174 QCPD 7174 QCPD 7184 QCPD & SIZE 7184 QCRD & SIZE 7185 QLITKIP 7186 QLITKIPH 7185 QLITKIPH 7186 QCRD TOTON 7184 QERATING SYSTEM 7185 QERATING SYSTEM 7186 QERATING SYSTEM 7186 QERATING SYSTEM 7186 QERATING SYSTEM 7187 QERATING SYSTEM 7188 QERATING SYSTEM 7188 QERATING SYSTEM 71888 QERATING SYSTEM </td <td>okm manual Oxyen Transfer Capacity Interface Digiet Structure Building Occupancy Occurrenc Type Occurrenc Type OveR-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFMC OIL CAPACITY OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TO OVER OLUBRENT CONTROL OF TYPE OVER OLUBRENT OVER OLUBREN</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>YES/NO YES/NO</td> <td>DEGREES</td>	okm manual Oxyen Transfer Capacity Interface Digiet Structure Building Occupancy Occurrenc Type Occurrenc Type OveR-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFILT OFMC OIL CAPACITY OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TO OVER OLUBRENT CONTROL OF TYPE OVER OLUBRENT OVER OLUBREN	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 DEX TRANS CAP 6382 DEX TRANS CAP 646 DEXTRUC 5343 OECUPANCY 6542 DECUPANCY 6542 DECURRNCE_TYPE 7142 OCPD & SIZE 6123 OFLIT 6124 OFMC 5468 OIL 6185 OIL FITE # 6185 OIL INTECTR 5880 OIL LEVEL 5890 OIL TEMPH 5821 OL TYPE 5822 OL DETER NUMBER 6383 OPENTOR SYSTEM 0384 OPERATING SYSTEM 0385 OPENT ING SYSTEM 0384 OPERATING SYSTEM 0385 OPENT ORTYP 586 OPERATOR SYSTEM 0386 OPENTOR TEMPURATURE 8882 OPERATING SYSTEM 0380 OPENTOR TEMPURATURE 8880 OPENTOR 0381 OPENTOR SYSTEM 0382 OPENTOR TEMPURATURE <	okm manual Oxyen Transfer Capacity Interface Digiet Structure Building Occupancy Occurrenc Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFMC OFMC OIL CAPACTTY OIL FUTER NO. OIL FUTER NO. OIL ITER NO. OIL ITER NO. OIL ITER NO. OIL TIER NO. OIL TIEL TIER NO. OIL TIEL TIER NO. OIL TIER NO	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
533 Q&M MANUEL 6382 QJ TRANS CAP 6382 QJ TRANS CAP 6384 QCURRENCE_TYPE 7144 QCPD 7144 QCPD 7134 QCPD & SIZE 6123 OFILT 6124 OFMC 5888 QIL 6185 QIL FITER # 6185 QIL FITER # 5889 QIL 6183 QL INTRCTR 5889 QIL LEVEL 5889 QIL LEVEL 5890 QIL TEMP 5892 QL TEMPH 5893 QL RETR NUMBER 6384 OFC ANTION 5894 OFERATING SYSTEM 5895 QERATING SYSTEM 5896 OFERATING SYSTEM 5896 OFERATING SYSTEM 5896 OFERATING SYSTEM 5896 OFERATING SYSTEM 5898 OFERATING SYSTEM 5899 OFERATING SYSTEM 5899 OFERATING SYSTEM 5890 OFERATING SYSTEM 5891 OFERATING SYSTEM 58920 OFERATING SYSTEM 5892 OFERA	o&m manual Oxyen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TOP OIL FUTER NO. OIL TOP O	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 CRANS CAP 6382 CAURENCE_TYPE 734 CCPD & SZE 6123 GILT 6124 OFMC 6383 OE CURRENCE_TYPE 7344 CCPD & SZE 6123 GILT 6124 OFMC 6123 GILT 6134 OFMC 6385 OIL INTROPT 6383 OIL LIVEL 5389 OIL TER # 6383 OIL LIVEL 5389 OIL TER # 6381 OIL TER # 6382 OPE NOTECT 10500 OL METER NUMBER 6383 OPE NOTECT 10530 OL TERMURATURE 8380 OPERATING STSTEM 10540 OPERATING STSTEM 10540 OPERATING STSTEM 10540 OPERATING STSTEM 10556 OPERATING STREM 10556 OPERATING STREM 10557 OPERATING STREM	okm manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type Over-CURRENT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OFILT OIL CAPACITY OIL INTER NO. OIL TYPE Overload Protection OId Meer Number Operator License Required Operator Usense Required Operator Type Operator Operator Devices Position Operator Type Oposite End Bravime Operating Operat	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 CRUPANCY 6383 CCUPANCY 6342 CCURRENCE_TYPE 7142 CCPD 7143 CREATINCH 7144 CREATINCY 7154 OPERATINCY 7154 OPERATINCY 7154 OPERATINCY 7154 OPERATINCY 7154 OPERATINCY 7154 OPERATINCY 7155 OPERATINCY 7155 OPERATINCY	okm manual Oxyen Transfer Capacity Interface Digits Structure Building Occupancy Occurrenc Type Overs-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OFMC OIL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVErload Protection OVErload Protection OVER OLURRE Required Operating Conditions Operator Uners Required Operation Op	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 QZ TRANS CAP 6382 QZ TRANS CAP 646 QUSTRUC 5334 QCCURENCE_TYPE 7142 QCPD 71740 QCPD 71840 QCPD RETT 71850 QUTENPH 718610 QUTENPH 71820 QUTERNPH 71820 QUTERNPH 71820 QUTERNPH 71840 PERATEVALVE 71800 QUERATING VOLTACE 71800 PERATING VOLTACE 71800 RECH TYP 718100 RECH TYP 71820 RURECH TYP 71820	okm manual Oxyen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type Over-CURERKT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TO OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR RELINT TO PROVIDE POSITION OPERATE VALVE OPERATION OPE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 CRAINS CAP 6382 CCUPANCY 6342 CCUPANCY 6342 CCUPANCY 6342 CCUPANCY 6342 CCUPANCY 6342 CCUPANCY 7344 CCPD & SZE 6123 GILT 6124 OFMC 5480 OL 6123 CLITTER 6383 OL INTERPT 5880 OL INTERPT 5880 OL INTERPT 5880 OL INTERPT 5892 OL ITERP 5893 OL INTERPT 5892 OL ITERP 5892 OL ITERP 5893 OL INTERPT 5894 OP CONDITON 5834 OP END INTERP 5835 OPE LICEQ 5840 OP CONDITON 5851 OPENTER NUMBER 5852 OPENTER NUMBER 5860 OPENTING SYSEM 5814 OPENTING SYSEM </td <td>okm manual Oxyen Transfer Capacity Interface Digits Structure Building Occupancy Occurrenc Type Overs-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OFMC OIL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVErload Protection OVErload Protection OVER OLURRE Required Operating Conditions Operator Uners Required Operation Op</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>YES/NO YES/NO</td> <td>DEGREES</td>	okm manual Oxyen Transfer Capacity Interface Digits Structure Building Occupancy Occurrenc Type Overs-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OFMC OIL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVErload Protection OVErload Protection OVER OLURRE Required Operating Conditions Operator Uners Required Operation Op	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 QE TRANS CAP 6382 QE TRANS CAP 646 QISTRUC 584 QECUPANCY 6942 QECURRENCE_TYPE 7142 QCPD & SZE 6123 GPLIT 6124 OFMC 6123 GPLIT 6134 OFMC 6123 GPLIT 6135 OL IFTR # 6383 OL LIVEL 5880 OL IETR 6381 OL ITTRP 5890 OL TERM 5990 OL TERM 6381 OL ITTRP 5980 OL TERM 5980 OL TERM 5980 OL TERM 5980 OL TERM 5981 OL TERM 5982 OL TERM 5983 OP CONDITON 6384 OP CONDITON 6385 OPE ALTOR 5984 OPEATTON STEM 5996 OPEATING STEM 5996 OPEATING TERUPATURE 5986 OPEATING TERUPATURE 5987 OPEATEN STEM 6188 OPE MO BR 6380 OPE MO BR 6381 OPE MO BR 6382	okm manual Oxyen Transfer Capacity Interface Object Structure Building Occupancy Occurrence Type Over-CURERKT PROT DEVICE TYPE & AMP FUSEA, BREAKERA, RELAY OFILT OFILT OFILT OFILT OFILT OIL FUTER NO. OIL FUTER NO. OIL FUTER NO. OIL INTER OFIL OIL FUTER NO. OIL TO OIL FUTER NO. OIL TO OIL FUTER NO. OIL TO OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR PROTECTION OVERIOAR RELIVIT TO PROVIDE POSITION OPERATE VALVE OPERATION OPE	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	
534 Q&M MANUEL 6382 DE TRANS CAP 6382 DE TRANS CAP 646 QUISTRUC 5343 OCCURRENCE_TYPE 7142 OCPD & SIZE 6123 OFLIT 61243 OFLIT 61244 OFLIT 6123 OFLIT 61244 OFLIT 6125 OIL ITER M 6126 OIL ITER M 6127 OIL ITER M 6128 OIL ITER M 6129 OIL ITER M 6120 OL ITER M 6121 OIL ITER M 6122 OL ITER M 6230 OIL ITER M 6240 OL POTECT 6250 OL ITER M 6261 OL TYPE 8380 OPERATINS VOLTAGE 8381 OPERATINS VOLTAGE 8382 OPERATINS VOLTAGE 6384 OPERATINS VOLTAGE 6385 OPE ND BANG 6380 OPERATINS VOLTAGE 63810 <td>okm manual Oxyen Transfer Capacity Interface Dipicet Structure Building Occupancy Occurrenc Type Over-CURERNT PROT D'EVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVER OLARENT PROT D'EVICE TYPE & AMP OVER OLARENT PROT D'EVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACITY OIL FILTER NO. OIL FIL</td> <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>VOLTS</td> <td>YES/NO YES/NO</td> <td>DEGREES</td>	okm manual Oxyen Transfer Capacity Interface Dipicet Structure Building Occupancy Occurrenc Type Over-CURERNT PROT D'EVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVER OLARENT PROT D'EVICE TYPE & AMP OVER OLARENT PROT D'EVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACITY OIL FILTER NO. OIL FIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	VOLTS	YES/NO YES/NO	DEGREES
SS34 Q&M MANUEL GS42 QZURANS CAP GS42 QZUPANS CAP GS43 QCUPANCY SS44 QCUPANCY GS42 QCUPANCY GS42 QCUPANCY GS42 QCUPANCY GS42 QCUPANCY GS42 QCUPANCY GS43 QCUPANCY GS42 QCURRENCE_TYPE GS43 QFD GS43 QFD GS50 QFT GS50 QFT GS50 QFT GS50 QFT GS50 QFT GS54 QF POTECT GS54 QF POTECT GS63 QFE RT NOR GS64 QF CONDITON GS74 QFE ATTON STEMPURATURE GS85 QFE RATINA SYSTEM GS80 QFE RATINA SYSTEM GS81 QFE RATON SUTAGE GS82 QFE RATON SUTAGE GS83 QFE RATON SUTAGE GS84 QFE RATON SUTAGE	okm manual Oragen Transfer Capacity Interface Object Structure Building Occupancy Occurence Type Occurence Type Over-CureRkT PROT DEVICE TYPE & AMP FUSEA, RELAY OFIL OFIL OFIL OFIL OFIL OFIL OFIL OFIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO	
534 Q&M MANUEL 6382 CRAINS CAP 6382 CCUPANCY 646 QUSTRUC 5343 CCUPANCY 6942 QCURRENCE_TYPE 7142 OCPO & SZE 6123 OFLIT 6124 OFMC 5480 OL 6123 OFLIT 6126 OL 6127 OFLIT 6128 OL INTROPT 5480 OL INTROPT 5880 OL ITER # 5881 OL INTROPT 5882 OL INTROPT 5880 OL INTROPT 5892 OL ITER # 5892 OL ITER # 5892 OL ITER # 5893 OL INTROPT 5894 OPACT 5895 OL ITER # 5896 OPEANT MARE 5896 OPEANT MARE 5896 OPEANT NO VOLTAGE 5996 OPEANT NO YOLTAGE 5997 OPEAN SR	okm manual Oxyen Transfer Capacity Interface Dipicet Structure Building Occupancy Occurrenc Type Over-CURERNT PROT D'EVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVER OLARENT PROT D'EVICE TYPE & AMP OVER OLARENT PROT D'EVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OIL CAPACITY OIL FILTER NO. OIL FIL	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	VOLTS	YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 DE TRANS CAP 6382 DE TRANS CAP 646 QUISTRUC 5343 OCCURENCE_TYPE 7142 OCPD & SIZE 6123 OFLIT 6124 OFLO 5124 OFLO 5123 OFLIT 6124 OFLO 5124 OFLO 5124 OFLO 5123 OFLIT 5124 OFLO 5124 OFLO 5124 OFLO 5124 OFLO 5124 OFLO 5120 ILFRF 5880 ILFNF 5890 OLLEVEL 5910 ILFMP 5920 DLIFERMIMER 5930 OLTERNIMER 59410 PCONDITION 59420 OLTERNIMER 59430 PERATINS VOLTACE 5950 PERATINS VOLTACE 5950 PERATINS VOLTACE 5950 <	okm manual Oxyen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type OVER-CURRENT PROT DEVICE TYPE & AMP FUSE _A, BREAKER _A, RELAY OFILT OFMC OL CAPACITY OIL FILTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL INTER NO. OIL TOP OVERIOAL PROTECTION OVER TUREN OVERIOAL PROTECTION OVER OVERAINEM AND OVER OVERIOAL PROTECTION OVER OVERAINEM AND OVERIOAL PROTECTION OVER OVERAINEM AND OVERAINEM OVERAINEM OVERAINEM AND OVERAINEM OVER	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO YES/NO	
SS34 Q&M MANUEL GS42 QEX TRANS CAP GS42 DEX TRANS CAP GS42 DEX TRANS CAP GS44 GEX UPANEY SS44 CEX UPANEY GS42 DECURRENCE_TYPE TX42 OEPD & SIZE G123 GILT G123 GILT G123 CILT G124 GIL G125 OLT FTR # G383 OLL TVE S980 OLT ETM G383 OLT TTMPI S980 OLT ETM G383 OLT TTMPI S980 OLT ETM G381 OP TOTECT G1920 OLT ETM FUNDARTURE G383 OP END EN TON G384 OP CONDITON G385 OP ENT ON STYFEM G386 OPERATIVALVE G387 OP END B RN G388 OPEN END SING G389 OPEN END SING G380 OPERATIVALYE G381	okm manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type Occurrenc Type Over-CurReNT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OFILT OL CAPACITY OL LAPACITY OL FLITER NO. OL FLITER NO. OL FLITER NO. OL FLITER NO. OL Terre To DEVICE TYPE BARD Operator License Required Operator Cleanse Required Operator Cleanse Required Operator Type Operator Type Operator Type Operator Barring Operation Operation Operation Operation Operation Operation Operator Usense Required Operation Operator Type Operator Barring Operation Operator Barring Operation Operator Ide Barring Operation Operator Ide Barring Operation Operator Operator Operator Ide Barring Operation Operator Operator Ide Barring Operation Operator Operator Operator Ide Barring Operator Operator Ide Barring Operator Operator Operator Ide Barring Operator Operator Operator Ide Barring Operator Ide	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	VOLTS	YES/NO YES/NO	
534 Q&M MANUEL 6382 CATANIS CAP 6382 CAUPANCY 646 QUISTUC 5343 CCUPANCY 6942 QCUCRENCE_TYPE 7142 OCPO & SZE 6123 GILT 6124 OFMC 5480 OL 6183 OL INTER* 5488 OL LEVEL 5889 OL TER* 5889 OL TER* 5890 OL TER* 5891 OL TER* 5892 OL TER* 5893 OL TER* 5894 OL POPCT 5895 OL TER 5896 OPEANTON 5897 OPEENTEN 5898 OPEANTON SYSTEM 5990 OPEANTING VOLTAGE 5991 OPEANTON SYSTEM 5992 OPEANTON TERVIPANTIPE 5993 OPEANTON TERVIPANTIPE 5994 OPEANTON TERVIPANTIPE 5995 OPEND BRN 5995 OPEANT	okm manual Oxyen Transfer Capacity Interface Digited Structure Building Occupancy Occurrence Type OveR-CURRENT PROT DEVICE TYPE & AMP FUSE _A, RELART OD DEVICE TYPE & AMP OFILT OIL CAPACTTY OIL FUTER NO. OIL INTER TRO. OIL INTER TRO. OIL INTER TRO. OIL INTER TRO. OIL TYPE Overload Protection OId Meter Number Operating Conditions Operator Longe Required Operator Values Required Operator Operator Required Operator Type Oposite End Bray Number Oporation Operating Operating Operating Operating Operating Mechanism Model Operating Mechanism Type ORDER ORDER ORDER ORDER OTING OUT Top OU	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	VOLTS FT AMPS	YES/NO YES/NO	DEGREES
534 Q&M MANUEL 6382 CATANIS CAP 6382 CAUPANCY 646 QUISTUC 5343 CCUPANCY 6942 QCUCRENCE_TYPE 7142 OCPO & SZE 6123 GILT 6124 OFMC 5480 OL 6183 OL INTER* 5488 OL LEVEL 5889 OL TER* 5889 OL TER* 5890 OL TER* 5891 OL TER* 5892 OL TER* 5893 OL TER* 5894 OL POPCT 5895 OL TER 5896 OPEANTON 5897 OPEENTEN 5898 OPEANTON SYSTEM 5990 OPEANTING VOLTAGE 5991 OPEANTON SYSTEM 5992 OPEANTON TERVIPANTIPE 5993 OPEANTON TERVIPANTIPE 5994 OPEANTON TERVIPANTIPE 5995 OPEND BRN 5995 OPEANT	okm manual Ongen Transfer Capacity Interface Object Structure Building Occupancy Occurrenc Type Occurrenc Type Over-CurReNT PROT DEVICE TYPE & AMP FUSEA, RELAY OFILT OFILT OFILT OFILT OFILT OL CAPACITY OL LAPACITY OL FLITER NO. OL FLITER NO. OL FLITER NO. OL FLITER NO. OL Terre To DEVICE TYPE BARD Operator License Required Operator Cleanse Required Operator Cleanse Required Operator Type Operator Type Operator Type Operator Barring Operation Operation Operation Operation Operation Operation Operator Usense Required Operation Operator Type Operator Barring Operation Operator Barring Operation Operator Ide Barring Operation Operator Ide Barring Operation Operator Operator Operator Ide Barring Operation Operator Operator Ide Barring Operation Operator Operator Operator Ide Barring Operator Operator Ide Barring Operator Operator Operator Ide Barring Operator Operator Operator Ide Barring Operator Ide	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO YES/NO	
SS34 O&M MANUELG382 D2 TRANS CAPG382 D2 TRANS CAPG384 OCCURRENCE TYPETA4 OCPDG394 OCCURRENCE TYPETA4 OCPD & SIZEG123 OFILTG124 OFMCG383 OL INTECTRG388 OL LEVELS380 OL LEVELS380 OL LEVELG381 OL TEMPHG382 OL LEVELG383 OL INTECTRG384 OPERATING VOLTAGEG384 OPERATING VOLTAGEG384 OPERATING VOLTAGEG385 OPER LECRCIG386 OPE ND BRNGG387 OPE ND BRNGG388 OPE ND GRNGG389 OPE ND BRNGG380 OPERATING VOLTAGEG381 ORENTYPG382 OPEND BRNGG383 OPE ND BRNGG384 OPERATING VOLTAGEG385 OPE LICRCIG386 OPE ND BRNGG387 OPE ND BRNGG380 OPE ND BRNGG391 ORIGTATIONG392 OLTUTONG393 OLTER NUMAGERG393 OLTER NUMAGER	okm manual Oxyen Transfer Capacity Interface Digited Structure Building Occupancy Occurrence Type OveR-CURRENT PROT DEVICE TYPE & AMP FUSE _A, RELART OD DEVICE TYPE & AMP OFILT OIL CAPACTTY OIL FUTER NO. OIL INTER TRO. OIL INTER TRO. OIL INTER TRO. OIL INTER TRO. OIL TYPE Overload Protection OId Meter Number Operating Conditions Operator Longe Required Operator Values Required Operator Operator Required Operator Type Oposite End Bray Number Oporation Operating Operating Operating Operating Operating Mechanism Model Operating Mechanism Type ORDER ORDER ORDER ORDER OTING OUT Top OU	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	VOLTS FT AMPS	YES/NO YES/NO	
SS34 Q&M MANUELGS82 Q2 TRANS CAPGS82 QCUPANCYGS42 QCUPANCYSS43 QCUPANCYGS42 QCUPANCYGS42 QCUPANCYGS42 QCUPANCYGS42 QCUPANCYGS42 QCUPANCYGS43 QCUPANCYGS43 QLURENCE_TYPEGS43 QLUTGS53 QLITER#GS83 QLUTER#GS83 QLUTER#GS83 QLUTER#GS83 QLUTER#GS83 QLUTER#GS83 QLUTERGS83 QLUTERGS84 QP CONDITONGS85 QPERTING STSFEMGS85 QPERTING STSFEMGS86 QPERATING STSFEMGS87 QP END BRGS83 QPENDNGS83 QPENDNGS83 QPENDNGS84 QPERATING STSFEMGS94 QPERATING STSFEMGS95 QPERATING STSFEMGS95 QPERATING STSFEMGS96 QPERATING STSFEMGS96 QPERATING STSFEMGS97 QPEND BRGS86 QPER NO.GS86 QPER NO.GS87 QPE ND BRGS80 QPER NO.GS80 QPER NO.GS90 QUTENT ATIONGS91 QUTENT NOGS92 QUTENT NOGS93 QUTUT NNGGS93 QUTUT NNGGS93 QUTUT NNGGS94 QUTUT TANGGS95 QUTUT AMPSGS96 QUTUT AMPSGS9	okm manual Oxyen Transfer Capacity Interface Dipets Structure Building Occupancy Occurrence Type Overs-CURRENT PROT DEVICE TYPE & AMP FUSE _ A, BREAKER _ A, RELAY OFILT OFILT OFILT OFILT OFILT OFILT OFILT OFILT OIL FUTTEN NO. OIL INTER NO. OIL TOP OVER OLURRENT CONTINUES OF THE STRUCTURE OVERSOURD STRUCTURE STRUCTURE STRUCTURE OVERSOURD STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE S	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	VOLTS FT AMPS KVA	YES/NO YES/NO	

5592 OUTPUT SPEED		Output Speed	ALN			
5659 OUTPUT V RNG		Control Output Volt Range	ALN	VOLTS		
7848 OUTPUT VOLT			ALN			
5508 OUTPUT VOLTS		Output Voltage	ALN	VOLTS		
6396 OUTSIDE DIAM		Outside Diameter	ALN			
6397 OVERALL HGHT		Overall Height	ALN			
7730 OVERLOAD		PERCENT	ALN			
5857 OWNER		Physical ownership	ALN			
10038 OWNER2		Physical ownership continued	ALN			
5870 P CONNTYPE		Connection Type	ALN			
5869 P CURRENT			ALN			
5867 P VOLTAGE			NUMERIC			
6198 P/S BELT		P/S BELT NO.	ALN			
6224 PACKING		PACKING	ALN			
6399 PACKING MATL		Packing Material	ALN			
6219 PACKING SIZE		PACKING SIZE	ALN			
8882 PAD SIZE			ALN			
5481 PAGE		GATEBOOK PAGE NUMBER	NUMERIC			
5447 PAINT CODE		PAINT CODE	ALN			
6245 PAMOUNT		PURCHASE AMOUNT	NUMERIC			
6400 PAN RANGE		Pan Range	ALN			
6401 PAN/TILT/ZM		Pan/Tilt/Zoom	ALN			
6168 PANEL FED BY		Panel Fed By	ALN			
7468 PANEL SECTION QTY		1,2,3,4, or OTHER	ALN			
7470 PANEL TYPE		SWG,SWB,MDP,MMLC,SUB-PANEL,PANELBOARD,LOAD CENTER,OTHER	ALN			
10034 PARCEL NUMBER		County Parcel Number	ALN			
6402 PARENT BLDG		Parent Building ID	ALN			
6403 PARKING LOTS		Has ParkingLot(s) Y/N	ALN		YES/NO	
8786 PARKING LOTS		Note Parking Restrictions	ALN		,	
9722 PART NO			ALN			
6162 PART NO.		Part Number	ALN			
6404 PART NUMBER		ID # 292752919	ALN			
5761 PASSWORD 1		Programed PW 1	ALN			
5762 PASSWORD 2		Programed PW 2	ALN			
10522 PASSWORD 2		Programed PW 2 Programed PW 1	ALN			
10522 PASSWORD 1 10524 PASSWORD 2			ALN			
10524 PASSWORD 2 9968 PAVER BRAND		Programed PW 2 Paver Brand	ALN			
		Paver Brand				
9962 PAVER TYPE		Paver Type	ALN			
5441 PCB LABEL		PCB Label	ALN			
6405 PCK UP SETT		Pick Up Settings	ALN			
5443 PDATE		PURCHASE DATE	ALN			
6406 PERM MAGNET		Has Permanent Magnet	ALN		YES/NO	
8022 PERMIT_NUMBER		Permit Number	ALN			
7522 PF%			ALN			
6407 PG E ACCT NO		PG&E Account Number	ALN			
6408 PGV MFG		Pilot Gas Valve Manufacturer	ALN			
6409 PGV MODEL		Pilot Gas Valve Model	ALN			
6410 PGV NO VLV		Pilot Gas Valve Number of Valv	ALN			
		Pilot Gas Valve Size	ALN			
6411 PGV SIZE						
6061 PHASE		Phase	ALN		PHASE	
		Phase Number of Electrical Phases	ALN ALN		PHASE	
6061 PHASE					PHASE	
6061 PHASE 9244 PHASES		Number of Electrical Phases	ALN		PHASE	
6061 PHASE 9244 PHASES 9544 PH-GND		Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE	ALN ALN		PHASE	
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PH-ONE # 9796 PHONE # (F MODEM) 9042 PHONE LINE SHARED		Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N)	ALN ALN NUMERIC ALN ALN	Y/N	YESORNO	
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM)		Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone #	ALN ALN NUMERIC ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED? 10526 PHONE NO	(v/n)	Number of Electrical Phases MAX PHAS TO GROUND VOLTAGE Modem Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone # Lift modem)	ALN ALN NUMERIC ALN ALN ALN ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED?	(v/n)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N)	ALN ALN NUMERIC ALN ALN ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # (JF MODEM) 9796 PHONE # (JF MODEM) 9798 PHONE LINE SHARED? 10526 PHONE NO 9044 PHONE PASSWORD 1 9046 PHONE PASSWORD 1	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Line Shared? (Y/N) Phone Password 1 Phone Password 2	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 10526 PHONE NO 9044 PHONE PASSWORD 1	(Y/N)	Number of Electrical Phases MAX PHAS TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone # (if modern) Phone Password 1 Phone Password 2 Phone Eine Shared? (Y/N)	ALN ALN NUMERIC ALN ALN ALN ALN ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # (JF MODEM) 9796 PHONE # (JF MODEM) 9798 PHONE LINE SHARED? 10526 PHONE NO 9044 PHONE PASSWORD 1 9046 PHONE PASSWORD 1	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Line Shared? (Y/N) Phone Password 1 Phone Password 2	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # (IF MODEM) 9796 PHONE # (IF MODEM) 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED? 10526 PHONE NO 9044 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE SHARED	(Y/N)	Number of Electrical Phases MAX PHAS TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone # (if modern) Phone Password 1 Phone Password 2 Phone Electrated (Y/N)	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN	Y/N		
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9046 PHONE PASSWORD 1 9046 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone # (I modem) Phone Password 1 Phone Password 2 Phone Line Shared? (Y/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN	Y/N	YESORNO	
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (F MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED 9566 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6412 PHSICAL LOCATION	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Password 1 Phone Password 1 Phone Phase Virt June Shared? (Y/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE Phase with LSE	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YESORNO	
6061 PHASE 9244 PHASES 9544 PHASES 9766 PHONE # 9766 PHONE # (IF MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED 10526 PHONE NO 9044 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6412 PHSICAL LOCATION 9964 PICP AREA	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modern Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Password 1 Phone Password 1 Phone Phase Virt June Shared? (Y/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE Phase with LSE	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	YESORNO	
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (F MODEM) 9042 PHONE LINE SHARED 9798 PHONE LINE SHARED 9566 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6412 PHSICAL LOCATION	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone # (If modem) Phone Password 1 Phone Password 2 Phone Ensared? (Y/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE Phase with List Physical Address	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	YESORNO	
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9704 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6412 PHYSICAL LOCATION 79924 PHYSICAL LOCATION 9954 PICP AREA 9948 PICP AREA 9948 PICP LENGTH	(V/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modern Phone # Shared phone # Phone Line Shared? (V/N) Phone Password 1 Phone Password 1 Phone Password 2 Phone Ene Shared? (V/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE Physical Address Permeable Interlocking Concrete Pavement Area	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN	YESORNO	
6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9042 PHONE LINE SHARED 9378 PHONE LINE SHARED 9378 PHONE HARED 9344 PHONE PASSWORD 1 9044 PHONE PASSWORD 1 9344 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE 6194 PHS 6412 PHYSICAL ADD 77092 PHYSICAL LOCATION 9364 PICP AREA 93948 PICP DIAMETER 93952 PIPE LINGTH 5815 PIPE LINGR	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Phone Line Shared? (V/N) Phone # (if modem) Phone Password 1 Phone Password 2 Phone Line Shared? (V/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE Physical Address Physical Address Permeable Interlocking Concrete Pavement Area Pipe Diameter Pipe Line Material	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN	YESORNO	
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6061 PHASE 9244 PHASES 9544 PHASES 9756 PHONE # 9756 PHONE # (IF MODEM) 9786 PHONE # (IF MODEM) 9788 PHONE LINE SHARED 9788 PHONE LINE SHARED 9788 PHONE LINE SHARED 9788 PHONE LINE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6412 PHYSICAL LOCATION 9964 PICP AREA 9948 PICP AREA 9948 PICP AREA 9948 PICP AREA 9948 PICP LINER 5815 PICE LINER 5809 PICE LINER 5815 PICE LINER 5826 PICE MATERIAL 9554 PICE TYCE 5826 PICE MATERIAL 9554 PICE MATERIAL 9555 PICE LINER 5826 PICE MATERIAL 9558 PICE JAGE 8422 PICE JAGE 8422 PICE JAGE 8422 PICE JAGE 8442 PICE JATUAME_CSD 7546 PICE JACEA 7546 PICE JACEA 7546 PICE JACEA 7546 PICE JACEA 7546 PICE JACEA 7546 PICE JACEA 7547 PICE JACEA 7546 PICE JACEA 7547 PICE JACEA 7547 PICE JACEA 7548 PICE JACEA 7548 PICE JACEA 7549 PICE JACEA 7549 PICE JACEA 7540 PICE JACEA 7541 PICE JACEA 7541 PICE JACEA 7541 PICE JACEA 7546 PICE JACEA 7547 PICE JACEA 7548 PICE JACEA 7548 PICE JACEA 7549 PICE JACEA 7540 PICE JACEA 7550 P	(Y/N) (Y/N) GATIVE	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone line (V/N) Phone line Shared? (V/N) Phone 11 (if modem) Phone Password 1 Phone Password 2 Phone Password 2 Phone Eshared? (V/N) Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 2 Phone Password 3 Phone Password 4 Phone Password 4 Phone Password 5 Phone Password 2 Phone Password 4 Phone Password 4 Phone Password 5 Phone Password 4 Phone Pastral	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES	YESORNO	
6061 PHASE 9244 PHASES 9544 PHASES 9546 PHASE 9756 PHONE # (F MODEM) 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9798 PHONE LINE SHARED 9046 PHONE PASSWORD 2 10528 PHONE PASSWORD 2	(Y/N) (Y/N) GATIVE	Number of Electrical Phases Mark PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone # Shared phone Electrical Phase Phone Line Shared? (V/N) Phone Electrical Phase Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 2 Phone Plass Voltage Phone Plassword 2 Pipe Internotic Plass Plassword 2 Pipe Internotic Plassword 2 Pipe Interintervic P	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES	YESORNO	
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6061 PHASE 9244 PHASES 9544 PHASES 9554 PHASES 9568 PHONE # 9796 PHONE INE SHARED 9786 PHONE UNE SHARED 9786 PHONE UNE SHARED 9042 PHONE UNE SHARED 9046 PHONE PASSWORD 2 10526 PHONE PASSWORD 2 10528 PHONE PHONE PASSWORD 2 9044 PHONE PASSWORD 2 9528 PH-PH VOITAGE 6134 PHSICAL LOCATION 9954 PH-PH VOITAGE 6134 PHSICAL LOCATION 9952 PIPE LINER 9953 PIPE INTER 9954 PIPE INTER 99550 PIPE MATERIAL 95550 PIPE INTER 9550 PIPE MATERIAL 9555 PIPE INTER 9580 PIPE MATERIAL 95950 PIPE MATERIAL 95950 PIPE MATERIAL 95950 PIPE MATERIAL 95850	(Y/N)	Number of Electrical Phases MAX FURSE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Plassword 1 Phone Password 2 Phone Password 2 <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>SF IN FT FT INCHES INCHES</td> <td>VESORNO PHASE PHASE</td> <td></td>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES INCHES	VESORNO PHASE PHASE	
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6061 PHASE 9244 PHASES 9544 PH-GND 5768 PHONE # 9796 PHONE # (IF MODEM) 9042 PHONE INF SHARED 9798 PHONE LINE SHARED 9052 PHONE WO 9044 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10526 PHONE NE NO 9046 PHONE PASSWORD 2 10528 PHONE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6134 PHS 6134 PHS 9542 PH-PH VOLTAGE 9542 PH-SCAL LOCATION 9964 PICP AREA 9952 PIPS LENGTH 9583 PIPE LINER 5809 PIPE MATERIA 9590 PIPE LINER 5809 PIPE MATERIAL 9552 PIPE LINER 5809 PIPE MATERIAL 95534 PIPE JONER_CSD 7956 PIPE_STATUS_CSD 79577 PLATE DIMENTIONS N	(V/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone # (f modem) Phone In Shared? (V/N) Phone # (if modem) Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 1 Phone Password 2 Phone Password 2 Phone Password 1 Phone Password 2 Phone Password 3 Phone Password 4 Phone Password 4 Phone Password 4 Phone Password 4 Phone Password 4 <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>SF IN FT FT INCHES INCHES</td> <td>VESORNO PHASE PHASE</td> <td></td>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES INCHES	VESORNO PHASE PHASE	
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6061 PHASE 9244 PHASES 9544 PHASES 9576 PHASE 9786 PHONE # 9796 PHONE INE SHARED 9786 PHONE INE SHARED 9786 PHONE INE SHARED 9786 PHONE INE SHARED 9046 PHONE PASSWORD 2 10526 PHONE PASSWORD 2 9047 PHONE PASSWORD 2 9048 PHONE PASSWORD 2 9528 PHONE PASSWORD 2 9641 PHONE PASSWORD 2 9782 PHYSICAL LOCATION 9964 PHYSICAL LOCATION 9952 PHE LINER 5859 PHE MARTER 9952 PHE LINER 5850 PHE VAGE 8042 PHE MARTERAL 9950 PHE M	(Y/N)	Number of Electrical Phases Maxk PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Plassword 1 Phone Password 2 Phone Password Password Passwore Passwore Passwore Passwore Passwore Passwore Pas	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES INCHES	VESORNO PHASE PHASE	
6661 PHASE 9244 PHASES 9544 PHASES 9544 PHASES 9576 PHONE # 9796 PHONE # 9796 PHONE # 9796 PHONE # 9797 PHONE INE SHARED 9798 PHONE LINE SHARED 9042 PHONE NE NE 9046 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10526 PHONE SHARED 9542 PH-PH VOLTAGE 6134 PHS 6134 PHS 6134 PHS 9542 PH-PH VOLTAGE 9542 PH-PH VOLTAGE 9543 PHE DEMATER 9954 PHE LINER 9952 PHE LENGTH 9583 PHP LINER 9590 PHE LINER 9590 PHE LINER 9580 PHE MATERIAL 95581 PHE LINER 9580 PHE MATERIAL 9581 PHE LINER 9590 PHE LINER 9582 PHE LINER 9590 PHE LINER 9510 PHE LINER 9521 PHE LINENTL_CSD 7954 PHE LOWNER_CSD 7954 PHE LOWNER_CSD 7954 PHE LINER SLOD 7954 PHE LINER SLOD	(Y/N)	Number of Electrical Phases MAX PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone # Shared phone # (if modem) Phone Line Shared? (V/N) Phone # (if modem) Phone Password 1 Phone Password 2 Phone Password 2 Phone Ine Shared? (V/N) MAX GUARDED PHASE TO GUARDED PHASE VOLTAGE Phase with List Physical Address Premeable Interlocking Concrete Pavement Area Pipe Iner Pipe length Pipe Iner Pipe Iner Pipe Iner Material Pipe Material Pipe Design Pipe Iner Material Pipe Iner Material Pipe Nickname Pipe Iner Material Pipe Nickname Pipe Nickname Pipe Size Pipe Size Pipe Size Pipe Instrument Package Instruments Instrument Package Instruments Instrument Package Instruments Instrument Package Instruments Pinoner/Shop <td>ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>SF IN FT FT INCHES INCHES</td> <td>VESORNO PHASE PHASE</td> <td></td>	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES INCHES	VESORNO PHASE PHASE	
6061 PHASE 9244 PHASES 9544 PHASES 9576 PHONE # 9796 PHONE IINE SHARED 9798 PHONE LINE SHARED 9042 PHONE LINE SHARED 9042 PHONE LINE SHARED 9046 PHONE PASSWORD 1 9046 PHONE PASSWORD 2 10528 PHONE PASSWORD 2 9542 PH-H+H VOLTAGE 6134 PHONE PASSWORD 2 9542 PH-H-H VOLTAGE 6134 PHSICAL LOCATION 9954 PIPE DIMETR 9952 PIPE LENGTH 5815 PIPE LINER 5809 PIPE MATERIAL 9950 PIPE LINGTH 5826 PIPE LINGTH_CSD 7950 PIPE_LENGTH_CSD 7950 PIPE_LINGTH_CSD 7954 PIPE_OWNER_CSD 7954 PIPE_OWNER_CSD 7954 PIPE_OWNER_CSD 7954 PIPE_OWNER_CSD 7954 PIPE_OWNER_CSD <td< td=""><td>(Y/N)</td><td>Number of Electrical Phases Maxk PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Electrical Phases Phone Electrical Phase Phone Plassword 1 Phone Password 2 Phone Password 2 Phone Plassword 2 Phone Plass Plassword 2 Pipe Internote Pipe Internote Pipe Internote Pipe Interiot</td><td>ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td>SF IN FT FT INCHES INCHES</td><td>VESORNO PHASE PHASE</td><td></td></td<>	(Y/N)	Number of Electrical Phases Maxk PHASE TO GROUND VOLTAGE Modem Phone # Shared phone # Shared phone line (Y/N) Phone Line Shared? (Y/N) Phone Electrical Phases Phone Electrical Phase Phone Plassword 1 Phone Password 2 Phone Password 2 Phone Plassword 2 Phone Plass Plassword 2 Pipe Internote Pipe Internote Pipe Internote Pipe Interiot	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF IN FT FT INCHES INCHES	VESORNO PHASE PHASE	
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	8166 PONUMB	PURCHASE ORDER NUMBER	ALN		
	9064 PORT #	Port Number	ALN		
1	10530 PORT NUM	Port Number	ALN		
	8948 PORTS	NUMBER OF PORTS	ALN		
	5793 POSITION X	X GPS Position	ALN		
	5790 POSITION Y	Y GPS Position	ALN		
	6417 POSITIONER	Has Positioner	ALN		YES/NO
	6418 POWER	Power	ALN		
	6419 POWER FACTOR	Power Factor	ALN		
	10202 POWER RATING	VOLTAGE RANGE	ALN		
	5615 POWER SOURCE	Power Source	ALN		
	5674 POWER SUPPLY		ALN		
	6420 PPE REQD	PPE Required Y/N	ALN		YES/NO
	5498 PPE REQUIRED	ARC Flash Rating	ALN		PPE REQUIRED
	6243 PPRICE	PUCHASE PRICE	ALN		
	6421 PRCS MEM CLK	Processors, Memory And Clock	ALN		
	6422 PRESSUR DROP	Pressure Drop	ALN		
	5604 PRESSURE	Pressure	ALN		
	6423 PRESSURE RTG	Pressure Rating	ALN		
	6424 PRIM VOLT	Primary Voltage	ALN		
	9760 PRIMARY	PRIMARY	ALN		
	8522 PRIMARY CONTAINER TYPE	Primary Container Type (DRUM or TOTE)	ALN		
	5732 PRIMARY V	Primary Voltage H	ALN		
	9744 PRIMARY VOLTS (H)	Primary Volts (H)	ALN		
	6425 PRIME OUTPUT	Prime Output	ALN		
	7316 PRIORITY	Work Order Priority	ALN		
	10032 PRIVATE PROPERTY	Is this detection of private property?	ALN		YES/NO
	6426 PRMT EXP DT	Permit Expiration Date	ALN		
	6427 PROBE TYPE	Probe Type	ALN		
	6428 PROC STR TYP	Process Structure Type	ALN		PROCESS STRUCT TYP
	6429 PROCESS	Process	ALN		
	6430 PROCESS NUM	Process Number	ALN		
	6431 PROCESS TYPE	Process Type	ALN		PROCESS TYPE
	6432 PROCESS VAR	Process Variable	ALN		
	5648 PROCESS VARI	Process Variable NUMBER OF PROCESSORS (CPU)	ALN		
	8944 PROCESSORS		ALN		
	6433 PROCSS INPUT	Process Input	ALN		
	7610 PRODDATE	Date to Production	ALN		
	5689 PROG INTERF	Programmer Interface Module	ALN		
	6434 PROGRAM	Program	ALN		
	9032 PROGRAM TO STANDARD TIME	Confirm meter programmed to PST	ALN		YESORNO
	8326 PROGRAM_MTU	PROGRAM MTU	ALN		YES/NO
	7582 PROGRAMMTU	CSB needs to program the MTU?	ALN		YES/NO
	5810 PROJECT	Original Project Division	ALN		PROJECT
	6074 PROJECT MGR.	Project Manager	ALN		
	7992 PROPERTY_ADDRESS_NUM	House Number of Property Served By Lateral	ALN		
	7994 PROPERTY_ADDRESS_STREET	Street of Property Served By Lateral	ALN		
	6435 PROT RLY TYP	Protective Relay Type	ALN		
	5633 PROTECT DEV	Protective Device	ALN		
	5530 PROTECTIVE D	protective device	ALN		
	6436 PROTECTV DEV	Protective Device	ALN		
	5599 PRSR RATING	Pressure Rating	ALN		
	6437 PRSSR RATING	Pressure Rating	ALN		
	6438 PRSSR REL RT	Pressure Relief Rating	ALN		
	5471 PR-SYS1	PR-SYSTEM1	ALN		
	5472 PR-SYS2	PR-SYSTEM2	ALN		
	6126 PSI	PSI	ALN		
	6127 PSIZE	PSIZE	ALN		
	5750 PT RATIO		NUMERIC		
	6398 P-TRAP	P-Trap	ALN		
	5655 PU SETTINGS	Pick Up Settingss	ALN		
	7648 PUBLISHCHNL	Interface Publish Channel	ALN		
	6164 PULLEY SIZE	Pulley Size	ALN		
	6439 PULLEYS	Pulleys	ALN		
	5754 PULSE MULTIP	PULSE MULTIP	NUMERIC		
	9036 PULSE MULTIPLIER IN METER (KE) (KWH/PULSE)	Pulse Multiplier in Meter (Ke) (kWh/pulse)			
	9036 PULSE MULTIPLIER IN METER (KE) (KWH/PULSE) 9784 PULSE MULTIPLIER IN METER (KE) (KWH/PULSE) = (KH/P/R)/1000		71211		
	9784 PULSE MULTIPLIER IN METER (KE) (KWH/PULSE) = (KH/P/R)/1000 6440 PULSE NUMBER	Pulse Multiplier in meter (Ke) (kWh/pulse) = (Kh/P/R)/1000 Pulse Number	ALN		
	10532 PULSE REVOLUTION	Pulses/Revolution	ALN		
	10352 - OLSE NEVOLUTION		ALL N		
	10534 PLU SE MULTIPUER	Pulse Multiplier in meter (Ke) (kWh/pulse) = (Kh/P/R)/1000	ALN		
1	10534 PULSE MULTIPLIER	Pulse Multiplier in meter (Ke) (kWh/pulse) = (Kh/P/R)/1000 Pulse constant	ALN		
1	5756 PULSE/REV	Pulse constant	NUMERIC		
1	5756 PULSE/REV 9786 PULSES/REVOLUTION	Pulse constant PULSES/REVOLUTION	NUMERIC ALN		
1	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP	Pulse constant PULSES/REVOLUTION Pump	NUMERIC ALN ALN		
1	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY	Pulse constant PulsES/REVOLUTION Pump Pump Capacity	NUMERIC ALN ALN ALN		PIIMP DRIVE TYPE
1	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TYP	Pulse constant PULSES/REVOLUTION Pump Pump Capacity Pump Drive Type	NUMERIC ALN ALN ALN ALN		PUMP DRIVE TYPE
1	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TYP 6444 PUMP SHF TYP	Pulse constant PULSES/REVOLUTION Pump Pump Pump Capacity Pump Drive Type Pump Shaft Type	NUMERIC ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
1	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6443 PUMP SHF TYP 6444 PUMP SHF TYP 6445 PUMS SL TYP	Pulse constant PULSES/REVOLUTION Pump Pump Capacity Pump Shaft Type Pump Shaft Type Pump Sealt Type	NUMERIC ALN ALN ALN ALN ALN ALN		
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TYP 6444 PUMP SHT TYP 6445 PUMP SL TYP 5614 PUMP TYPE	Pulse constant PulsEs/REVOLUTION Pump Pump Capacity Pump Drive Type Pump Shaft Type Pump Stale State	NUMERIC ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
3	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TVP 6444 PUMP SHT TVP 6444 PUMP SHT TVP 5614 PUMP ST TVP 5614 PUMP ST TVP	Pulse constant PULSE/REVOLUTION Pump Pump Capacity Pump Shaft Type Pump Salt Type Pump Shaft Type Pump Shaft Type Pump Shaft Type Pump Shaft System Pump Sha	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6443 PUMP SH TYP 6445 PUMP SL TYP 5614 PUMP SL TYP 5614 PUMP TYEE 6446 PURCE FLOWRT 6445 PURCE FLOWRT	Pulse constant PulSES/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Yee Pump Type	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6444 PUMP SHF TYP 6444 PUMP SHF TYP 6444 PUMP SHTYP 5614 PUMP TYPE 6446 PUMSE FLOWRT 10536 PV MATER RMETER NUMBER 10538 PV METER	Pulse constant PulsEs/REVOLUTION Pump Pump Capacity Pump Capacity Pump Start Type Pump Shaft Type Pump Start Type Pump Start Sype Sump Type Pump Start smatter meter Number? Is this a PV meter?	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TVP 6444 PUMP SHT TVP 6444 PUMP SHT TVP 5614 PUMP SLT YP 5614 PUMP SLT YP 5614 PUMP SLT YP 5613 PUMP SLT YE 10536 PV MASTER NETER NUMBER 10538 PV METER 10538 PV METER	Pulse constant PULSES/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type If PV Whark is master meter Number? If PV Whark is master meter Number? Is this a PV meter? Is this a PV meter? Is Visa SP Meter?	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SH TYP 6445 PUMP SH TYP 6445 PUMP TYPE 6446 PURGE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV METER 10540 10540 PV SYSTEM OWNER 9818 PV SYSTEM OWNER?	Pulse constant PulSES/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Shaft System PUMP System Owner? PUMP System Own	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6444 PUMP SHF TYP 6444 PUMP SHF TYP 6444 PUMP SHF TYP 6445 PUMP SL TYP 5514 PUMP TYPE 6446 PUMP SL TYP 5513 PV MATER 10536 PV MATER 10536 PV MATER 10540 PV SYSTEM OWNER 9411 PV SYSTEM OWNER 6447 PVB	Pulse constant PulSES/REVOLUTION Pump Pump Capacity Pump Staft Type Pump Staft Type Pump Staft Type Pump Staft Type Pump Staft Stype Pump Staft Stype Staft Stype Pump Stype Pump Stype Staft Stype Staft Stype Staft Stype PUS Stype Stype PUS Stype Stype PUS	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SHT TYP 6444 PUMP SHT TYP 6446 PURCE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV MASTER METER NUMBER 10538 PV STSTEM OWNER 9318 PV SYSTEM OWNER 9318 PV SYSTEM OWNER? 6447 PVB 9307 PVCP AREA	Pulse constant PULSE/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Typ	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP TYE 6446 PURSE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV METER 10538 PV METER 9818 PV STSTEM OWNER 9920 PVCP AREA 5712 PWR FACTOR	Pulse constant PulseS/REVOLUTION Pump Pump Pump Pump Capacity Pump Shaft Type Pump Shaft System PUS Shaft Sh	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6444 PUMP SHE TYP 6444 PUMP SHE TYP 6444 PUMP SHE TYP 6446 PURGE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV MASTER METER NUMBER 10538 PV SKTEM OWNER 9910 PV/STEM OWNER 9911 PV/STEM OWNER 9910 PV/CP AREA 5712 PWR FACTOR 6448 PWR MONITOR	Pulse constant PULSES/REVOLUTION Pump Pump Capacity Pump Capacity Pump Salt Type Pump Salt Type Pump Sell Type Pump Sell Type Pump Fole Pump Fole Pump Fole Pump Fole Pump Sell States Pump Sell Sta	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SHT TP 6445 PUMP SHT TP 6446 PURCE FLOWRT 10536 PV MASTER NETER NUMBER 10538 PV METER 10536 PV STEM OWNER 9818 PV SYSTEM OWNER 6447 PVB 6447 PVB 6448 PURC REA 5712 PWR FACTOR 6448 PWR FMONITOR 6449 PWR SUPT NO	Pulse constant PulseS/REVOLUTION Pump Pump Pump Pump Capacity Pump Shaft Type Pump Shaft System PUS Shaft Sh	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	PUMP SHAFT TYPE
3	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP TYE 6446 PURSET COWRT 10536 PV MASTER METER NUMBER 10538 PV MASTER METER NUMBER 10538 PV MASTER MOWNER 9818 PV SYSTEM OWNER 9970 PVCP AREA 5712 PWR FACTOR 6449 PWR SUPT NO 6440 PWR SUPT NO 6440 PWR SUPT NO 6440 PWR SUPT NO	Pulse constant PULSES/REVOLUTION Pump Pump Capacity Pump Capacity Pump Salt Type Pump Salt Type Pump Sell Type Pump Sell Type Pump Fole Pump Fole Pump Fole Pump Fole Pump Sell States Pump Sell Sta	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	SF	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP CAPACTY 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6442 PUMP CAPACTY 6442 PUMP SHE TYP 6444 PUMP SHE TYP 6444 PUMP SHE TYP 6445 PUMS ST TYP 5614 PUMP TYPE 6446 PURGE FLOWRT 10536 PV MASTER METER NUMBER 10536 PV MASTER METER NUMBER 10536 PV MASTER MOWRER 9811 PV STSTEM OWNER 9812 PV STSTEM OWNER 98370 PVCP ARA 5712 PUR FACTOR 6443 PUMR SU PT NO 6443 PUMR SU PT NO 8404 QTY OF BATERIY CELL	Pulse constant PULSES/REVOLUTION Pump Pump Capacity Pump Capacity Pump Salt Type Pump Salt Type Pump Sell Type Pump Sell Type Pump Fole Pump Fole Pump Fole Pump Fole Pump Sell States Pump Sell Sta	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP SI TYP 6444 PUMP SI TYP 6445 PUMP SI TYP 6446 PUMC ELOWNT 10336 PV MASTER METER NUMBER 10338 PV MASTER METER NUMBER 10338 PV MASTER METER NUMBER 10340 PV SYSTEM OWNER 9818 PV SYSTEM OWNER 9917 PVCP AREA 5712 PWR FACTOR 6448 PWR FMONITOR 6449 PWR SUPT NO 8104 PUT OF BATTERIES 8102 QTY OF BATTERIES 8102 OLY OF BATTERIES 8104 PUR FOR ON INTON	Pulse constant PULSES/REVOLUTION Pump Pump Capacity Pump Capacity Pump Salt Type Pump Salt Type Pump Sell Type Pump Sell Type Pump Fole Pump Fole Pump Fole Pump Fole Pump Sell States Pump Sell Sta	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
1	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP CAPACTY 6442 PUMP CAPACTY 6442 PUMP SET PP 6444 PUMP SET TP 6445 PUMP SET TP 6445 PUMP SET TP 6445 PUMP TRE 10536 PV MASTER METER NUMBER 10538 PV METER 10538 PV MASTER METER NUMBER 10538 PV MASTER METER NUMBER 10536 PV MASTER MOWNER 9818 PV STSTEM OWNER 9970 PVCP AREA 5712 PWR FACTOR 6449 PWR TYND 8440 PVR PATERIES 8102 QTY OF BATTERIES 8102 QTY OF ANTERIES 8102 QTY OF INSULTORN 702 QTY OF INSULTORN	Pulse constant Pulse RevOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Shaft Type Pump Shaft Type Pump Staft	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		PUMP SHAFT TYPE
3	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TVP 6444 PUMP SIF TYP 6445 PUMP SIF TYP 6445 PUMP SIF TYP 6446 PURSE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV METER 10538 PV METER 9030 PVCP AREA 5712 PWR FACTOR 6445 PWR MONITOR 6445 PWR MONITOR 6445 PUR SU PT NO 8104 QTY OF BATTERIY CELL 7020 QTY OF BATTERIY CELL 7020 QTY OF INSULATION 7031 20 QTY OF WINSULATION 7042 GLIY OF WINSULATION 7051 20 QTY OF WINSULATION	Pulse constant PULSE/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Shaft Type Pump Shaft Type Pump Shaft Type Pump Type Pump Type Pump Type Pump Type Pump Ever Pump E	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL	PUMP SHAFT TYPE
3	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP SET 6444 PUMP SET TYP 6445 PUMP SET TYP 6445 PUMP SET TYP 6446 PURCE FLOWRT 10336 PV MASTER METER NUMBER 10338 PV MASTER METER NUMBER 10336 PV STEM OWNER 9818 PV SYSTEM OWNER 9930 PVCP AREA 5712 PWR FACTOR 6449 PWRS UP TNO 8104 QIT OF BATTERIES 8102 QIT OF BATTERIES 8102 QIT OF BATTERIES 8102 QIT OF INSULATION 7012 QIT OF INSULATION 7012 QIT OF INSULATION 7012 SUAD UT OF MATTERY CELL 6138 QUANTITY 9966 QUIK COUPLER	Pulse constant PULSE/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Shaft	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE
3	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP DRV TVP 6444 PUMP SIF TYP 6445 PUMP SIF TYP 6445 PUMP SIF TYP 6446 PURSE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV METER 10538 PV METER 9030 PVCP AREA 5712 PWR FACTOR 6445 PWR MONITOR 6445 PWR MONITOR 6445 PUR SU PT NO 8104 QTY OF BATTERIY CELL 7020 QTY OF BATTERIY CELL 7020 QTY OF INSULATION 7031 20 QTY OF WINSULATION 7042 GLIY OF WINSULATION 7051 20 QTY OF WINSULATION	Pulse constant PULSE/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Shaft Type Pump Shaft Type Pump Shaft Type Pump Type Pump Type Pump Type Pump Type Pump Ever Pump E	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSE/REVOLUTION 6441 PUMP 6442 PUMP CAPACTY 6443 PUMP SET 6444 PUMP SET TYP 6445 PUMP SET TYP 6445 PUMP SET TYP 6446 PURCE FLOWRT 10336 PV MASTER METER NUMBER 10338 PV MASTER METER NUMBER 10336 PV STEM OWNER 9818 PV SYSTEM OWNER 9930 PVCP AREA 5712 PWR FACTOR 6449 PWRS UP TNO 8104 QIT OF BATTERIES 8102 QIT OF BATTERIES 8102 QIT OF BATTERIES 8102 QIT OF INSULATION 7012 QIT OF INSULATION 7012 QIT OF INSULATION 7012 SUAD UT OF MATTERY CELL 6138 QUANTITY 9966 QUIK COUPLER	Pulse constant PULSE/REVOLUTION Pump Pump Pump Capacity Pump Shaft Type Pump Shaft	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP CAPACTY 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SH TYP 6445 PUMP SH TYP 6445 PUMP SH TYP 6445 PUMP ST TYP 6445 PUMP TYE 6446 PURSE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV MASTER METER NUMBER 10536 PV MASTER MOWNER 9818 PV SYSTEM OWNER 9970 PVCP AREA 5712 PWR FACTOR 6449 PWR S UP NO 8104 QTY OF BATTER/ES 8104 QTY OF INSULATION 7020 QTY OF INSULATION 7020 QTY OF INSULATION 7038 QUICK COUPLER 9888 QUICK COUPLER SIZE	Pulse constant PULSES/REVOLUTION Pump Pump Pump Pump Capacity Pump Shaft Type Pump Shaft Stype Pump Stype Pump Shaft Stype Pump Stype Pump Shaft Stype Pump Shaft Stype Pump Shaft Stype Pump Shaft Stype Pump Stype Pump Stype Pump Shaft Stype Pump Stype Pu	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP 6441 PUMP CAPACTY 6442 PUMP DRV TVP 6444 PUMP SIF TVP 6444 PUMP SIF TVP 6445 PUMP SIF TVP 6446 PURE REVORT 10336 PV METER PUMP SIT 9318 PV MASTER NUMBER 10338 PV METER PUSEND OWNER 9447 PVB 9470 PVSTEM OWNER 9447 PVB 9510 PVCP AREA 512 PUME FACTOR 6448 PUM RONTOR 6449 PUME SUT TNO 8104 PUT OF AREA 512 PUME FACTOR 6448 PUME NONTOR 6449 PUME SUT TNO 8104 PUME SUT TREV CELL 7020 QTY OF INSULATION 7021 QT OF MURE 6133 QUANTTV 9988 QUICK COUPLER 9988 QUICK COUPLER SIZE	Pulse constant PULSE/REVOLUTION Pump Pump Pump Pomp Pump Capacity Pump Shaft Type Pump Shaft Stream Str	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE
	5756 PULSE/REVOLUTION 6441 PUMP CAPACTY 6442 PUMP CAPACTY 6443 PUMP CAPACTY 6444 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP SIT TP 6446 PURCE FLOWRT 10336 PV MASTER METER NUMBER 10338 PV MASTER METER NUMBER 10340 PV SISTEM OWNER 9818 PV SISTEM OWNER 9930 PVCP AREA 5712 PWR FACTOR 6443 PWR FMONITOR 6443 PWR FACTOR 6444 PWR FACTOR 6445 PWR FACTOR 6446 PWR FACTOR 6447 PVB 7020 PV OF BATTERY CELL 7020 PV OF INSUL	Pulse constant PULSE/REVOLUTION Pump Pump Pump Pump Capacity Pump Shaft Type Pump Shaft Shaf	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE
	5756 PULSE/REV 9786 PULSES/REVOLUTION 6441 PUMP CAPACTY 6442 PUMP CAPACTY 6442 PUMP SIT TP 6443 PUMP SIT TP 6444 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP SIT TP 6445 PUMP SIT TP 6446 PURSE FLOWRT 10536 PV MASTER METER NUMBER 10538 PV MASTER METER NUMBER 10536 PV MASTER MOWNER 9818 PV SYSTEM OWNER 9920 PVCP AREA 5712 PWR FACTOR 6449 PURS UP NO 5721 PUR FACTOR 6449 PURS UP NO 6449 PURS UP NO <td>Pulse constant PULSES/REVOLUTION Pump Pump Pump Pump Capacity Pump Shaft Type Pump Shaft Type</td> <td>NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>GAL Y/N</td> <td>PUMP SHAFT TYPE</td>	Pulse constant PULSES/REVOLUTION Pump Pump Pump Pump Capacity Pump Shaft Type	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	GAL Y/N	PUMP SHAFT TYPE

64	450 RANG MIN SPN	Range Min Span	ALN			
		Range	ALN			
		voltage range factor		к		
			ALN	ĸ		
		Rate Study Cost Allocation Category				
		Rated Amperage	ALN			
	084 RATED CURRENT		ALN			
	862 RATED FREQUENCY		ALN			
56	630 RATED MAX V	Rated Voltage Range Factor	ALN	KV		
78	864 RATED TEMPERATURE		ALN			
64	452 RATED VOLTAG	Rated Voltage	ALN			
64	453 RATING KW	Rating (kW)	ALN			
		kVA Rating		KVA		
		Rating Plug	ALN			
		RATIO	ALN			
	561 RD NAME		ALN			
57	774 READING CH.1	Meter reading	NUMERIC	KWH/KVAR		
57	775 READING CH.2	Meter reading	NUMERIC	KWH/KVAR		
57	776 READING CH.3	Meter reading	NUMERIC	KWH/KVAR		
57	777 READING CH.4	Meter reading	NUMERIC	KWH/KVAR		
		REAR AXLE CAP	ALN			
			ALN			
		Rear Camera System Manufacture				
		Rear Camera System Model Number	ALN			
		Rear Camera System Serial Number	ALN			
72	217 REAR TIRE SIZE	REAR TIRE SIZE	ALN			
61	147 REASON	Reason for Test	ALN			
64	455 RECDWG	Recdwg	ALN			
90		Recoder ID	ALN			
		Recorder ID	ALN			
		RECORDER ID	ALN			
		Redundancy Comm Module	ALN			
		Redundancy Comm Module	ALN			
		Redundancy	ALN			
54	454 REF	REF #	ALN			
64	458 REFRIG AMT	Refrigerant Amount	ALN			
		Refrigerant Charge	ALN			
		Refrigerant Coolants	ALN			
		Refrigerant Oil	ALN			
		Refrigerant Type	ALN			
61	191 REFRIGERANT	REFRIGERANT	ALN			
64	463 REFRIGERATED	Refigerated (Y/N)	ALN		YES/NO	
57	786 REGION	Regions	ALN			
		Register	ALN			
		REGULATION PERCENT	ALN			
			ALN			
		Regulatory				
		Rehab Contractor ID	ALN			
58	846 REHAB DATE	Bidg. Rehab. Date	ALN			
64	466 REHAB TYPE	Rehab Type	ALN			
92	222 REHABFT	Rehab Footage	NUMERIC	FT		
102	248 RELATIVE HUMIDITY	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
72		CKT, CT, MP, EM, PT, OTHER	ALN			
		Reliability	ALN			
64						
		nemonity			VEC/NO	
85	1906 REMOTE		ALN		YES/NO	
85	1906 REMOTE 1150 REPAIR LOCATION GL ACCT	Repair (Maintenance) Location GL Acct.	ALN ALN		YES/NO	
85 81 81	906 REMOTE 1500 REPAIR LOCATION GL ACCT 1148 REPAIR LOCATION INDEX CODE	Repair (Maintenance) Location GL Acct. Repair Location Index Code	ALN ALN ALN		YES/NO	
85 81 81 92	1906 REMOTE 150 REPAIR LOCATION GLACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRFT	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage	ALN ALN ALN NUMERIC	FT	YES/NO	
81 81 92 92	9966 REMOTE 150 REPAIR LOCATION GL ACCT 1148 REPAIR LOCATION INDEX CODE 2224 REPAIRFT 1226 REPLACE	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage Replace Asset	ALN ALN ALN NUMERIC ALN	FT	YES/NO	
81 81 92 92 75	9906 REMOTE 150 REPAIR LOCATION GL ACCT 138 REPAIR LOCATION INDEX CODE 224 REPAIRET 226 REPLACE 904 REPLACEMENT VEHICLE	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage	ALN ALN ALN NUMERIC ALN ALN	FT	YES/NO	
81 81 92 92 75	9966 REMOTE 150 REPAIR LOCATION GL ACCT 1148 REPAIR LOCATION INDEX CODE 2224 REPAIRFT 1226 REPLACE	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage Replace Asset	ALN ALN ALN NUMERIC ALN	FT	YES/NO	
85 81 92 92 75 87	1906 REMOTE 150 REPAIR LOCATION GL ACCT 148 REPAIR LOCATION INDEX CODE 1224 REPAIRFT 225 REPLACE 1904 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW)	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage Replace Asset	ALN ALN ALN NUMERIC ALN ALN	FT	YES/NO	
85 81 92 92 75 81 81 81 81	1906 REMOTE 150 REPAIR LOCATION GLACCT 1148 REPAIR LOCATION INDEX CODE 224 REPAIRT 1226 REPLACE 904 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW) 1728 REPLACEMENT VEHICLE (NEW)	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage Replace Asset REPLACEMENT VEHICLE (NEW)	ALN ALN ALN NUMERIC ALN ALN	FT	YES/NO	
88 81 92 92 75 83 87 87 87	9906 REMOTE 150 REPAIR LOCATION GL ACCT 138 REPAIR LOCATION INDEX CODE 224 REPAIRET 226 REPLACE 904 REPLACEMENT VEHICLE 728 REPLACEMENT VEHICLE (NEW) 788 REPLACEREPAIR 976 REPL_CONT_ID	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Footage Replace Asset REPLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN	FT	YES/NO	
86 81 92 92 75 83 83 83 75 75	1906 REMOTE 150 REPAIR LOCATION GL ACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRFT 225 REPLACE 904 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW) 738 REPLACEREPAIR 976 REPL_CONT_ID 976 REPL_CONT_ID	Repair (Maintenance) Location GL Acct. Repair Cocation Index Code Repair Footage Replace Asset REPLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN		YES/NO	
85 81 92 75 83 83 87 75 75 75	1906 REMOTE 150 REPAIR LOCATION GLACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRET 225 REPLACE 1904 REPLACE 1904 REPLACEMENT VEHICLE 1728 REPLACEMENT VEHICLE (NEW) 1728 REPLACEREPAIR 1976 REPL_CONT_ID 1978 REPL_CLENT_JO 1984 REPLC_LENGTH	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Location Index Code Replace Asset REPLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN NUMERIC		YES/NO	
88 81 92 95 75 81 83 83 75 75 75 75 75	906 REMOTE 150 REPAIR LOCATION GL ACCT 138 REPAIR LOCATION INDEX CODE 224 REPAIRET 226 REPLACE 900 REPLACEMENT VEHICLE 1728 REPLACEMENT VEHICLE (NEW) 1788 REPLACEMENT VEHICLE (NEW) 1788 REPLACEMENT VEHICLE (NEW) 1798 REPL_CONT_ID 1998 REPL_CHVD_JO 1984 REPLC_HVD_JO 1984 REPLC_LENGTH 1980 REPLC_NOTE	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Location Index Code Replace Asset REPLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN NUMERIC ALN		YES/NO	
85 81 83 92 92 77 83 88 88 75 75 75 75 75 75	9906 REMOTE 150 REPAIR LOCATION GL ACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRFT 225 REPLACE 904 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW) 1738 REPLACEMENT VEHICLE (NEW) 1748 REPLACEMENT VEHICLE (NEW)	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Cootage Replace Asset REPLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement Reported By	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
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88 81 99 92 92 93 93 93 95 75 75 75 75 75 75 75 99 99 95 55 64 64 55 55	9906 REMOTE 190 REPAIR LOCATION GL ACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRET 226 REPLACE 904 REPLACEMENT VEHICLE 727 REPLACEMENT VEHICLE (NEW) 728 REPLACEMENT VEHICLE (NEW) 738 REPLACEMENT VEHICLE (NEW) 746 REPLACEMENT (NEW) 746 REPLACEMENT (NEW) 746 REPLACEMENT (NEW) 746 RESERVOIR SZ 746 RESERVOIR SZ 746 RESERVOIR SZ 746 RESERVOIR SZ 746 RESERVOIR SZ 746 RESERVOIR SZ 747 REPLACEMENT (NEW) 747 REPLACEMENT (NEW) 747 REPLACEMENT (NEW) 747 REPLACEMENT (NEW) 747 REPLACEMENT (NEW) 747 REPLACEMENT (NEW) 748 RESERVOIR (NEW) 747 REPLACEMENT (NEW) 747 REPLA	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Location Index Code Repair Footage RepLace Arsst RepLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement Reporting System Software Version Date Re-roofed/Replaced Reservoir Reservoir Size Resolutions Resolutions Resolutions Resolutions Resolutions RESONSIBLE SUPERVISOR	ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO	
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88 81 81 99 92 92 92 92 93 75 75 75 75 75 75 75 75 99 95 86 66 65 55 55 55 66 88 86 66 66	9006 REMOTE 100 REPAIR LOCATION GLACCT 130 REPAIR LOCATION INDEX CODE 224 REPAIR LOCATION INDEX CODE 224 REPAIR 226 REPLACE 900 REPLACEMENT VEHICLE 1728 REPLACEMENT VEHICLE (NEW) 1788 REPLACEMENT VEHICLE (NEW) 1980 REPLACEMENT VEHICLE (NEW) 1990 REPLACEMENT VEHICLE (NEW) 199	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Location Index Code Repair Costage Replace Acste REPLACEMENT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement Reported By Reporting System Software Version Date Re-roofed/Replaced Reservoir Reservoir Resolutions Resolutions Resolutions RESPONSIBLE SUPERVISOR DATE OF RETURN Rim Elevation Rik Score	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO	
88 81 81 99 97 77 81 81 81 77 77 77 77 77 77 77 77 77 77 77 77 77	9906 REMOTE 150 REPAIR LOCATION GL ACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIR LOCATION INDEX CODE 224 REPAIRET 226 REPLACE 904 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW) 1738 REPLACEMENT VEHICLE (NEW) 1748 REPLACEMENT VEHICLE (NEW) 1740 REVLATION NEW THE N	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Location Index Code Repair Footage Replace Asset RePLACEMENT V EHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement Reporting System Software Version Data Re-order/Replaced Reservoir Reservoir Size Resolutions RESPONSIBLE SUPERVISOR DATA GF RETURN Rim Elevation Risk Score Rack Unit Part Number	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO	
88 88 88 99 99 99 99 99 87 75 75 75 75 75 75 75 75 75 75 75 75 75	9906 REMOTE 150 REPAIR LOCATION IGLACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRET 225 REPLACE 900 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW) 1738 REPLACEMENT VEHICLE 1740 REPLACEMENT VEHICLE 1740 REPLACEMENT VEHICLE 1740 REPLACEMENT VEHICLE 1750 REPLACE	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Cocation GL Acct. Repair Cocation Index Code Repair Cocation Index Code Repair Cocation GL Acct. Repair Cocation Index Code Repair Cocation GL Acct. Reporting System Software Version Data Re-profed/Replaced Reservoir Reservoir Size Color GL Acct Cocation GL Resolutions RESPONSIBLE SUPERVISOR DATE OF RETURN Rik Score Rack Unit Part Number Room Maintenance Date	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO	
88 88 88 99 99 99 99 99 87 75 75 75 75 75 75 75 75 75 75 75 75 75	9906 REMOTE 150 REPAIR LOCATION IGLACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIRET 225 REPLACE 900 REPLACEMENT VEHICLE 1724 REPLACEMENT VEHICLE (NEW) 1738 REPLACEMENT VEHICLE 1740 REPLACEMENT VEHICLE 1740 REPLACEMENT VEHICLE 1740 REPLACEMENT VEHICLE 1750 REPLACE	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Location Index Code Repair Footage Replace Asset RePLACEMENT V EHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement Reporting System Software Version Data Re-order/Replaced Reservoir Reservoir Size Resolutions RESPONSIBLE SUPERVISOR DATA CF RETURN Rim Elevation Risk Score Rack Unit Part Number	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO	
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88 81 81 99 92 92 92 93 75 75 75 75 75 75 75 75 75 75 75 75 99 95 86 66 65 88 66 66 66 66 66 66 66 66 66 66 66 66	9906 REMOTE 150 REPAIR LOCATION GLACCT 148 REPAIR LOCATION INDEX CODE 224 REPAIR LOCATION INDEX CODE 224 REPAIRET 226 REPLACE 900 REPLACEMENT VEHICLE 728 REPLACEMENT VEHICLE (NEW) 738 REPLATION VEHICLE (NEW) 740 RES COME 741 RICK UNT PT NO 742 RIM MAINT DES 743 RIMAINTDESC 743 RIMAINTDESC	Repair (Maintenance) Location GL Acct. Repair Location Index Code Repair Tootage Repair Footage Replace Asset REPLACEMNT VEHICLE (NEW) For Replacement or Add'I Repairs, Make a child W/O, Print It and give to Planning With Your PM W/O Contract Number That Will Replace/Abandon This Pipe Hydraulics Job Order Number That Will Replace/Abandon This Pipe Replacement Length Notes About Future Replacement Reporting System Software Version Date Re-roofed/Replaced Reservoir Reservoir Size Resolutions RESPONSIBE SUPERVISOR DATE OF RETURN Rink Esore Rack Unit Part Number Room Maintenance Date Room Maintenance Datescription Range Min Span Road Width Total Square Footage	ALN ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT FT	YES/NO	
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8482 SA ID NUMBER		SERVICE ADDRESS NUMBER	ALN			
6483 SAFETY STOP		Safety Stop (Y/N)	ALN		YES/NO	
6484 SAMPLE		Sample	ALN		YES/NO	
6485 SAMPLER TYPE		Sampler Type	ALN			
5522 SC RATING		short circuit rating		KA		
7624 SCHEMA		Database Schema for Change	ALN			
6486 SCR HUB SIZE		Screw Hub Size	ALN			
6487 SCR OPEN SIZ		Screen Opening Size	ALN			
6488 SCREEN TYPE		Screen Type	ALN		SCREEN TYPE	
6489 SCREW WIDTH		Screw Width	ALN			
7626 SCRIPTLOC		SQL Script Location	ALN			
6490 SCRUBBER TYP		Scrubber Type	ALN			
6491 SCRW BLDE DM		Screw Blade Diameter	ALN			
6492 SCRW THCKNSS		Screw Thickness	ALN			
6213 SEAL		SEAL	ALN			
7370 SEAL TYPE		Seal Type (Packing, Mechanical)	ALN			
6217 SEALS		SEALS	ALN			
6222 SEAT TYPE		SEAT TYPE	ALN			
5635 SEC 1. BUS		Section 1 Amperage	ALN	AMPS		
5540 SEC 2 BUS		SECTION 2 AMPERAGE	ALN			
5636 SEC 2. BUS		Section 2 Amperage	ALN	AMPS		
5541 SEC 3 BUS		SECTION 3 AMPERAGE	ALN			
5637 SEC 3. BUS		Section 3 Amperage	ALN	AMPS		
5542 SEC 4 BUS		SECTION 4 AMPERAGE	ALN			
5638 SEC 4. BUS		Section 4 Amperage	ALN	AMPS		
5543 SEC 5 BUS		SECTION 5 AMPERAGE	ALN			
5639 SEC 5. BUS		Section 5 Amperage	ALN	AMPS		
5544 SEC 6 BUS		SECTION 6 AMPERAGE	ALN			
5640 SEC 6. BUS		Section 6 Amperage		AMPS		
6493 SEC AMPS		Secondary Amps	ALN			
6494 SEC VOLT		Secondary Voltage	ALN			
5539 SEC.1 BUS		SECTION 1 AMPERAGE	ALN			
7322 SECLEVEL		Security Level	ALN			
7306 SECLEVELS		Security Levels (separate with commas)	ALN			
9762 SECONDARY		SECONDARY	ALN			
5733 SECONDARY V		Secondary Voltage X	ALN			
9746 SECONDARY VO	LTS (X)	Secondary Volts (X)	ALN			
6495 SECR CTRCTR		Security Contractor ID	ALN			
6496 SECT 1 BUS		Section 1 BUS	ALN			
6497 SECT 2 BUS		Section 2 BUS	ALN			
6498 SECT 3 BUS		Section 3 BUS	ALN			
6499 SECT 4 BUS		Section 4 BUS	ALN			
6500 SECT 5 BUS		Section 5 BUS	ALN			
6501 SECT 6 BUS		Section 6 BUS	ALN			
6203 SECUR CLASS		SECURITY CLASS	ALN			
6502 SECURITY		Security	ALN			
6503 SECURITY SYS		Security System (Y/N)	ALN		YES/NO	
5844 SEIS.UP DATE		Seismic Upgrade Date	ALN			
5905 SEISM, RATE2		Seismic Priority Rating 2nd	ALN			
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6130 SIZE	SIZE	ALN			
10008 SIZE OF DRAINAGE MANAGEMENT AREA	Size of Drainage Management Area	NUMERIC	SF		
5817 SLOPE	Slope for the Asset	ALN			
8950 SLOTS	THE NUMBER OF SLOTS	ALN			
6131 SN/#	SN/#	ALN			
10264 SNOW DEPTH	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
10266 SNOW PILLOW	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
5690 SOFTWARE	Software	ALN			
6515 SOFTWARE VER	Software Version	ALN			
10250 SOIL MOISTURE	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
5818 SOIL TYPE	Soil Surrounding Asset	ALN			
10286 SOLAR RADIATION	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
10258 SOLAR SHIELD	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
8484 SP ID NUMBER	SERVICE POINT NUMBER	ALN			
	Space Heater Fed	ALN			
5494 SPACE HT FED					
5492 SPACE HT SZ	Space Heater Size	ALN			
5493 SPACE HT V	Space Heater	ALN			
10024 SPAN	A specific section of a transmission line, between towers.	ALN			Span
9504 SPEC	SPECIFICATION	ALN			
6209 SPEC#	#	ALN			
10022 SPECIES	Species of tree or vegetation.	ALN			
6516 SPEED	Speed	ALN			
6517 SPEED RANGE	Speed Range	ALN			
6518 SPIL-PRF PVB	Spill-Proof PVB	ALN			
6154 SPINDLE		ALN			
	Spindle				
9984 SPRAY HEAD MODEL NUMBER	Spray Head Model Number	ALN			
9982 SPRAY HEAD TYPE	Spray Head Type	ALN			
7702 SPTDOC	Additional Supporting Documents Location	ALN			
5634 SRVC VOLTAGE	Service Voltage	ALN	VOLTS		
5483 SRVC. FACT	Service Factor	ALN			
8350 SSO_DISCOVERY_TIME	Time of SSO Discovery	ALN			
8352 SSO_EST_END_TIME	Estimated SSO End Time	ALN			
8354 SSO_EST_VOLUME	Estimated SSO Volume (gallons)	NUMERIC			
				VES/NO	
8348 SSO_GTE_1000_GAL	Is overflow greater than 1,000 gallons? YES/NO	ALN		YES/NO	
8346 SSO_REACH_BAY_WATER	Did overflow reach Bay water? YES/NO	ALN		YES/NO	
6519 ST PRSS VSSL	State Pressure Vessel Number	ALN			
6520 STABILITY	Stability	ALN			
10546 STANDARD TIME	ALWAYS PROGRAMMED TO STANDARD TIME	ALN			
5706 STANDBY KVA	kVA-Standby	ALN	KVA		
5705 STANDBY KW			KW		
	kW-Standby	ALN	ĸw		
7362 STANDBY SOURCE	Standby Source (Fed By)	ALN			
6231 START	START	ALN			
5563 START PT		ALN			
9074 START READ TIME	Start Read Time	ALN			
10548 START READ TIME	Start Read Time (COLUMN IS TEXT)	ALN			
6163 STARTER	Starter	ALN			
5486 STARTER SIZE	Starter Size	ALN			
6521 STARTNG METH	Starting Method	ALN			
6522 STATE	State	ALN			
6523 STATUS	Status	ALN			
5792 STBLOCK	Street Block Number	NUMERIC			
	Street Block Number				
5792 STBLOCK 6524 STD MAX TRVL	Street Block Number Standard Max Travel (speed)	NUMERIC ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT	Street Block Number Standard Max Travel (speed) Standby Output	NUMERIC ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STEAM FLW RT	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate	NUMERIC ALN ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STEAM FLW RT 6527 STEAM PRESSR	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate Steam Pressure	NUMERIC ALN ALN ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6526 STEAM FLW RT 6527 STEAM PRESR 6528 STEM LENGTH	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate Steam Pressure Stem Length	NUMERIC ALN ALN ALN ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STEAM FLW RT 6527 STEAM PRESSR 6528 STEM LENGTH 6529 STEM MATL	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate Steam Pressure Steam Ingeth Stem Material	NUMERIC ALN ALN ALN ALN ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STEAM FLW RT 6527 STEAM PRESSR 6528 STEM LENGTH 6529 STEM MATL 6523 STEM SZE	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate Steam Pressure Stem Length	NUMERIC ALN ALN ALN ALN ALN ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STEAM FLW RT 6527 STEAM PRESSR 6528 STEM LENGTH 6529 STEM MATL	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate Steam Pressure Steam Ingeth Stem Material	NUMERIC ALN ALN ALN ALN ALN ALN			
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5792 STBLOCK 6524 STD MAX TRVL 6525 STD MAX TRVL 6525 STEAM FLW RT 6527 STEAM PRESSR 6528 STEAM ILW RT 6528 STEM LENGTH 6529 STEM MATL 6529 STEM MATL 6520 STEM SIZE 6530 STEM SIZE 8530 STEM SIZE 8535 STOREEOOM 8244 STP_NEEDED 5475 STR 6159 STRAINER 5515 STREAMBED	Street Block Number Standard Max Travel (speed) Standby Output Steam Flow rate Steam Flow rate Steam Length Stem Aterial STEM SIZE Stem Type Time Zone Storage Size WHERE TOOL IS STORED Number of Floors STP Needed? Y/N STREET Strainer Part of Stream Channel (V/N)	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
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5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STDBY OUTPUT 6525 STEM VENTH 6527 STEM NERSSR 6529 STEM INGTH 6529 STEM SIZE 6530 STEM TYPE 5763 STNORD TIME 10002 STORAGE SIZE 8464 STORERDOM 5835 STORIES 8024 STP_ NEEDED 5473 STR 6539 STRAINER 5515 STREAMBED 6531 STREAMBED 6531 STREAMBED 6531 STREAMBED	Street Block Number Standby Output Standby Output Steam Flow rate Steam Pressure Steam Pressure Stem Auterial Stem Material Stem SZE Stora Type Storage Size WHIERE TOOL IS STORED Number of Floors STP Needed? V/N STREET Strainer Part of Stream Channel (V/N)	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5792 STBLOCK 6524 STD MAX TRVL 6525 STDBY OUTPUT 6525 STDBY OUTPUT 6526 STENLENSTH 6527 STEAM PRESSR 6522 STENLENSTH 6529 STEM MATL 6529 STEM MATL 6529 STEM MATL 6529 STEM MATL 6529 STEM SIZE 6530 STEM TYPE 5763 STRORD TIME 10002 STORAGE SIZE 8164 STOREROOM 5833 STORIES 8304 STP. NEEDED 5475 STR 6159 STRAINER 5515 STREAMBED 6531 STREET 5784 STREET ADDRE 5793 STREET BLOCK	Street Block Number Standard Max Travel (speed) Standby Output Standby Output Steam Flow rate Steam Flow rate Steam Iongut Stem Material Stem Stafe Stem Stafe Stem Stafe Storage Size WHERE TOOL IS STORED Number of Floors Strainer Part of Stream Channel (V/N) Street Address closes to pole Storet Stok Number	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
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5792 STBLOCK 6524 STBD YOUTPUT 6525 STBOY OUTPUT 6525 STEAM FLW HT 6527 STEAM FLW HT 6527 STEAM FLW HT 6528 STEM LINCTH 6529 STEM LINCTH 6529 STEM STEM STEP 6520 STEM MATL 6523 STEM MATL 6523 STEM STEP 6530 STEM TYPE 5763 STRORD TIME 10002 STORAGE STEP 83164 STOREROOM 5333 STERT 6345 STRET 6353 STRET 6353 STRET 6353 STRET ADDRE 5794 STREET ADDRE 5795 STREET NAME 5796 STRET N	Street Block Number Standby Output Standby Output Steam Flow rate Steam Flow rate Steam Flow rate Steam Stem Length Stem Anderial Stem Anderial Stem Steps Street Storage Size WHERE TOOLS STORED Number Of Floors STREET Strainer Part of Stream Channel (V/N) Street Address Closets to pole Street Stork Number Street Store	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		STREET TYPE	
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5792 STBLOCK 6524 STBD YOUTPUT 6525 STBOY OUTPUT 6525 STEM FUN PET 6527 STEM NENTH 6527 STEM NATL 6528 STEM LINGTH 6529 STEM LINGTH 6520 STEM STER 6530 STEM TYPE 5763 STREET 6531 STRETRET 6532 STRET ADDRE 5793 STREET BLOCK 5794 STREET ADDRE 5795 STREET NAME 6535 STRUCT COND 6532 STRUCT COND 6533 STRUCT COND 6533 <td>Stret Block Number Standby Output Standby Output Steam Flow rate Steam Flow rate Steam Pressure Steam Naterial Stem Xaterial Stem Xaterial Stem Xaterial Stem Xaterial Stem Step Waterial Stem Step Waterial Stret Steam Channel (V/N) Stret Stret Steam Channel (V/N) Steam Channel (V/N) Stret Steam Channel (V/N) Steam Channel (V/N) Stret Steam Channel (V/N) Steam Channel (V/N) Steam Channel (V/N) Steam Channel (V/N) Steam Channel (V/N)</td> <td>NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td></td> <td>STREET TYPE</td> <td></td>	Stret Block Number Standby Output Standby Output Steam Flow rate Steam Flow rate Steam Pressure Steam Naterial Stem Xaterial Stem Xaterial Stem Xaterial Stem Xaterial Stem Step Waterial Stem Step Waterial Stret Steam Channel (V/N) Stret Stret Steam Channel (V/N) Steam Channel (V/N) Stret Steam Channel (V/N) Steam Channel (V/N) Stret Steam Channel (V/N)	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		STREET TYPE	
5792 STBLOCK 6524 STED MAX TRVL 6525 STED VUPUT 6525 STEM NESSR 6527 STEM NESSR 6528 STEM LINGTH 6529 STEM NESSR 6520 STEM NATL 6523 STEM STER 5763 STRORD TIME 10002 STORAGE SIZE 8244 STP. NEEDED 5435 STRET 5743 STREET BOOK 5743 STREET BOOK 5744 STRET TYPE 8202 STRETT STRUCK 8203 STRUCT COND 944 STRUCTURE MATERIAL 6335 SUTEN TASK 6335 SUTEN TON 944 STRUCT COND 945 STRUCT COND 945	Street Block Number Standby Output Standby Output Steam Flow rate Steam Flow rate Steam Forssure Steam Inguth Stem Langth Stem Langth Stem Street Stem Street Storage Size WHERE TOOL SSTORED Number Of Floors Street Address Subnet Mask Street Suck Number Street Suck Number Street Suck Number Street Mask Str	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			
5792STBLOCK6524STED YOUPUT6525STED YOUPUT6526STEAM FRUNKT6527STEAM STRESS6528STELINGTH6529STELINGTH6529STELINGTH6520STEM STEC6530STEM YPE5763STORAGE SIZE8004STP_NEDED5785STREAM RED6531STRET5515STREAMED6535STERT NARE5784STRET ADDRE5793STRET RADRED6535STRET NARE5794STRET RADRED6535STRET NARE5795STRET NARE5796STRET NARE5797STRET NARE5798STRET NARE5798STRET NARE5795STRET TYPE5802STRUCT COND5815STRUCT URE MATERIAL6828STRUC COND.6523STUUT URE MATERIAL6633SUESTNT C DT5745SUENT MASK6533SUEST NARE6533SUEST NARE6533SUEST NARE6533SUEST NARE6534SUCT UN BR6535SUENT FASK6535SUENT RANKE6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER6535SUENT RUMER <t< td=""><td>Street Block Number Standby Output Steam Flow rate Steam Flow rate Steam Flow rate Steam Forssure Steam Ingent Stem Vaget Stem Vaget Stem Type Stem Type Storage Size WHERE TOOL IS STORED Number of Floors STREET Strainer Part of Stream Channel (r/N) Street Address Closet to pole Street Sick Number Suction Line Street Sick Sick Sick Sick Sick Sick Sick Sick</td><td>NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>STREET TYPE</td><td></td></t<>	Street Block Number Standby Output Steam Flow rate Steam Flow rate Steam Flow rate Steam Forssure Steam Ingent Stem Vaget Stem Vaget Stem Type Stem Type Storage Size WHERE TOOL IS STORED Number of Floors STREET Strainer Part of Stream Channel (r/N) Street Address Closet to pole Street Sick Number Suction Line Street Sick Sick Sick Sick Sick Sick Sick Sick	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		STREET TYPE	
5792 STBLOCK 6524 STED MAX TRVL 6525 STED VUPUT 6525 STEM NESSR 6527 STEM NESSR 6528 STEM LINGTH 6529 STEM NESSR 6520 STEM NATL 6523 STEM STER 5763 STRORD TIME 10002 STORAGE SIZE 8244 STP. NEEDED 5435 STRET 5743 STREET BOOK 5743 STREET BOOK 5744 STRET TYPE 8202 STRETT STRUCK 8203 STRUCT COND 944 STRUCTURE MATERIAL 6335 SUTEN TASK 6335 SUTEN TON 944 STRUCT COND 945 STRUCT COND 945	Street Block Number Standby Output Standby Output Steam Flow rate Steam Flow rate Steam Forssure Steam Inguth Stem Langth Stem Langth Stem Street Stem Street Storage Size WHERE TOOL SSTORED Number Of Floors Street Address Subnet Mask Street Suck Number Street Suck Number Street Suck Number Street Mask Str	NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN			

6544 SYSTEM RISK	System Risk	ALN			
6545 SYSTEM TYPE	System Type	ALN		SYSTEM TYPE	
7628 TABLES	List of Tables for Change	ALN			
5608 TANK CAP	Air Receiver Tank Capacity	ALN			
5883 TANK FITTING		ALN			
6546 TANK MATL	Tank Material Type	ALN		TANK MATERIAL TYPE	
7212 TANK SIZE	TANK SIZE	ALN			
6547 TANK TYPE	Tank Type	ALN		TANK TYPE	
	Tap 1	ALN			
5737 TAP 2	Tap 2	ALN			
5738 TAP 3	Tap 3	ALN			
5739 TAP 4	Tap 4	ALN			
5740 TAP 5	Tap 5	ALN			
5820 TAP INFORM	Tap Size/Location, Lateral Tap	ALN			
6548 TAP TYPE	Tap Type	ALN			
9764 TAPS VOLTAGE 1 9766 TAPS VOLTAGE 2	TAPS VOLTAGE 1 TAPS VOLTAGE 2	ALN ALN			
	TAPS VOLTAGE 2	ALN			
9770 TAPS VOLTAGE 4	TAPS VOLTAGE 4	ALN			
9772 TAPS VOLTAGE 5	TAPS VOLTAGE 5	ALN			
5881 TAPSETTING		ALN			
5874 TAPVOLT 1		ALN			
5875 TAPVOLT 2		ALN			
5876 TAPVOLT 3		ALN			
5878 TAPVOLT 5		ALN			
5879 TAPVOLT 6		ALN			
5880 TAPVOLT 7		ALN			
5877 TAPVOLT4		ALN			
7210 TARE WEIGHT	TARE WEIGHT	ALN			
9482 TASK ORDER	Task Order Number	ALN			
9054 TCP/IP	IP ADDRESS	ALN			
5449 TDH	Total Dynamic Head	ALN			
6549 TEMP RATING	Temperature Rating	ALN			
	Temperature Rise	ALN			
6550 TEMPERATURE	Temperature	ALN			
7022 TEMPERATURE CLASS	A, B, C, OTHER	ALN			
6146 TEST DATE	Test Date	ALN			
7614 TESTDATE	Date to Test	ALN			
	1YR, 2YR, 5YR, 10YR, OTHER, NO TESTING REQ	ALN			
6132 TEXT	TEXT	ALN			
6133 TEXT0	TEXTO	ALN			
6085 TEXT1	TEXT1	ALN			
	TEXT2	ALN			
6048 TEXT3	TEXT3	ALN			
6049 TEXT4	TEXT4	ALN			
6050 TEXT5	TEXT5	ALN			
	TEXT6	ALN			
6052 TEXT7	TEXT7	ALN			
6053 TEXT8	TEXT8	ALN			
6054 TEXT9	TEXT9	ALN			
6055 TEXTA	TEXTA	ALN			
5491 THERM SENS	Thermal Sensors	ALN			
7868 THERMALLY PROTECTED	YES / NO	ALN			
6551 THGHPT DRY S	Throughput Dry Solids	ALN			
	Throughput Flow	ALN			
6553 TILT RANGE	Tilt Range	ALN			
9050 TIME INSTALLED	Time Installed	ALN			
7866 TIME RATING	CONTINUOUS, 5, 15, 30, 60 MINUTES	ALN			
0552 TIME INSTALLED	TIME INSTALLED	ALN			
	TIRE SIZE	ALN			
6056 TITLE	TITLE	ALN			
6240 TOOL TYPE 8162 TOOLDESCRIPTION	TOOL TYPE DESCRIPTION	ALN			
		ALN			
5545 TORQUE 7789 TORQUE SETTING	Torque	ALN	IN/LBS		
5885 TOTAL		ALN			
5585 TOTAL HEAD	Total Head	ALN			
5459 TOTAL WEIGHT	WEIGHT	ALN			
5725 TOW TYPE	Tow Type	ALN			
6554 TP LD MX TRV	Top Loaded Max Travel (speed)	ALN			
6555 TRAFFIC PLAN	Traffic Plan Required	ALN		YES/NO	
8800 TRAFFICCOND	Note Traffic Conditions	ALN			
5724 TRAIL WEIGHT	Trailer Weight		LBS		
6156 TRAIN GEAR	Train Gear	ALN			
6181 TRANS	TRANSMISSION	ALN			
6196 TRANS FILTER	TRANSMISSION FILTER	ALN			
7219 TRANS MAKE	TRANSMISSION MAKE	ALN			
7220 TRANS MODEL	TRANSMISSION MODEL	ALN			
5748 TRANS TYP	Transformer Type	ALN			
5703 TRANS TYPE	Transition Type	ALN			
7218 TRANS TYPE	TRANSMISSION TYPE	ALN			
7802 TRANSFER SWITCH USE	SDS, NON-SDS	ALN			
6625 TRANSFORMER	Transformer	ALN			
7024 TRANSFORMER CONSTRUCTION	AUTO, INDUCTION	ALN			
9750 TRANSFORMER FED BY	TRANSFORMER FED BY	ALN			
9752 TRANSFORMER FEEDS	TRANSFORMER FEEDS	ALN			
9748 TRANSFORMER TYPE (DRY-OIL)	TRANSFORMER TYPE (DRY-OIL)	ALN			
7026 TRANSFORMER TYPE SYSTEM	GROUNDED, NON-GROUNDED	ALN			
6556 TRANSFRM TYP	Transformer Type	ALN		TRANSFORMER TYPE	
7734 TRANSIENT PROTECTION	V FOR 10 US WITH 40 OHM		VOLTS		
6557 TRANSPORTABL	Transportable	ALN		TRANSPORTABLE	
6558 TREATMENT	Treatment	ALN			
6559 TRFFC PLN NO	Traffic Plan Number	ALN			
5529 TRIP COIL A	tripping coil current		AMPS		
5526 TRIP DELAY	permissible tripping delay		SECONDS		
6560 TTL DYN HEAD	Total Dynamic Head	ALN			
7804 TTRANSFER SWITCH USE 2	AUTO, MANUAL	ALN			
6561 TUBING MATL	Tubing Material	ALN			
	TURN IN DATE	ALN			
8798 TURNSTO20	Note Number of Turns to Equal 20%	NUMERIC			
9206 TVMSR	TV Measurement	NUMERIC	FT		

9208 TVMSRV	Reason for Camera/TV Footage Variance	ALN		
6562 TYP CHM TR U	Type of Chem Treatment Used	ALN		
6057 TYPE	TYPE	ALN		
7508 TYPE CONSTRUCTION	METAL,SS,WOOD,OTHER	ALN		
6563 TYPE DEVICE	Type of Device	ALN		
6564 TYPE EXT FIN	Type of Exterior Finish	ALN		
7482 TYPE INSTALL	SURFACE,FREE-STAND,FLUSH,SEMI-FLUSH	ALN		
7014 TYPE MOUNT	POLE, PAD, PLATFORM, SUBSTATION, VAULT	ALN		
8220 TYPE OF CONTROL		ALN		
9972 TYPE OF DRAINAGE MANAGEMENT		ALN		
9946 TYPE OF DRAINAGE MANAGEMENT AREA	Type of Drainage Management Area	ALN		
8219 TYPE OF SERVICE		ALN		
7144 TYPE SYSTEM	SEPARATELY OR NON-SEPARATELY DERIVED	ALN		
7146 TYPE USE	REDUNDANT/STANDALONE	ALN		
5862 TYPE.	Type Transformer	ALN		TYPE.
6565 TYPOFCABINET	Type of Cabinet	ALN		
6566 UNDR-WRTR LB	Under-writer Lab	ALN		
10556 UNIT NUM	Unit Number	ALN		
9912 UNIT_NUMBER	Unit Number	ALN		
9906 UNIT_PROCESS_NUMBER	Unit Process Number	ALN		
5886 UNTANKING		ALN		
5821 UP. INVERT	Upstream Invert of Pipe	ALN		
6567 UPPER URL	Upper URL	ALN		
5501 UPS FED BY	Source (line)	ALN		
7310 USERID	User ID (Entered by IT)	ALN		
6568 USERS	Users	ALN		
5482 V_TYPE	OLD VALVE TYPE?	ALN		
5600 VAC RATING	Vacuum Rating	ALN		
9433 VACUUM BLOWER MFG.	Vacuum Blower Manufacture	ALN		
9434 VACUUM BLOWER MODEL #	Vacuum Blower Model Number	ALN		
9437 VACUUM BLOWER OIL CAPACITY	Vacuum Blower Oil Capacity	NUMERIC	PT	
9436 VACUUM BLOWER OIL TYPE	Vacuum Blower Oil Type	ALN		
9435 VACUUM BLOWER SER #	Vacuum Blower Serial Number	ALN		
6227 VALVE	VALVE	ALN		
6569 VALVE CONN	Valve Connection	ALN		VALVE CONNECTION
6570 VALVE FUNCTN	Valve Function	ALN		
5597 VALVE NO.	Valve Number	ALN		
6571 VALVE SEAL	Valve Seal	ALN		
6572 VALVE TYPE	Valve Type	ALN		VALVE TYPE
8796 VALVECONDITION	Note Condition of Valve, Make Minor Repairs	ALN		
6573 VALVES	Valves	ALN		
6574 VAULT ACCESS	Vault Access Type	ALN		VAULT ACCESS
6575 VAULT LADDER	Vault Ladder Type	ALN		VAULT LADDER TYPE
6576 VAULT LID TY	Vault Lid Type	ALN		VAULT LID TYPE
6577 VAULT TYPE	Vault Type	ALN		VAULT TYPE
6578 VAV BOX	Variable Air Volume (VAV) Box	ALN		
9210 VCMSR	Inspection Measurement	NUMERIC	FT	
9212 VCMSRV	Reason for Video Coding Footage Variance	ALN		
5517 VEH. REPLACE	VEHICLE REPLACED	ALN		
7201 VEHICLE HEIGHT	VEHICLE HEIGHT	ALN		
8722 VEHICLE REPLACE (OLD)	VEHICLE BEPLACE (QLD)	AIN		
8722 VEHICLE REPLACE (OLD)	VEHICLE REPLACE (OLD) Specific Vehicle Required Due To Location Restrictions/Canacity	ALN		
8502 VEHICLE REQUIREMENT	Specific Vehicle Required Due To Location Restrictions/Capacity	ALN		
8502 VEHICLE REQUIREMENT 6579 VENDOR		ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor	ALN ALN NUMERIC	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VERIFYIDTAG	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured	ALN ALN NUMERIC ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 794 VERIPYIDTAG 5852 VERT. LOAD	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf	ALN ALN NUMERIC ALN ALN	FT	VED TYPE
8502 / VEH/LE REQUIREMENT 6579 / VENDOR 7032 / VENTIOR REQ CLEARANCES 8794 / VERIFYIDTAG 5852 / VERT. LOAD 6580 / VED TVPE	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type	ALN ALN NUMERIC ALN ALN ALN	FT	VED TYPE YFS/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ.CLEARANCES 8794 VERIFYIDTAG 5852 VERT. LOAD 6580 VED TYPE 6581 VIBR MONITOR	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertify ID Tag, Secure if not secured Vertify ID Tag, Secure if not secured Variable Frequency Drive Type Has Vibration Monitor Y/N	ALN ALN NUMERIC ALN ALN ALN ALN	FT	VFD TYPE YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VERIFYIDTAG 5852 VERT. LOAD 6580 VERT MONITOR 6582 VIER MONITOR 6582 VIER MONITOR 6582 VIER MONITOR	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Verifue Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression	ALN ALN NUMERIC ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VERIFYIDTAG 5852 VERT, LOAD 6580 VFD TYPE 6581 VIDE OKMPKS 6582 VIDEO CMPKSS 6583 VIDEO CMPKS	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Varable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Input	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 0579 VENITOR REQUERANCES 8794 VERIFYIDTAG 582 VERT. LOAD 6580 VFD TYPE 6582 VIBR MONITOR 6582 VIDEO CMPRS 6583 VIDEO CMPUT 6584 VIDEO OUTPUT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor Y/N Video Compression Video Input Video Loput	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARAINCES 8794 VERIFYIDTAG 5832 VERT. LOAD 6580 VFD TYPE 6581 VIBR MONITOR 6582 VIDEO CMPRSS 6583 VIDEO IMPUT 6583 VIDEO UTPUT 6585 VIDEO UTPUT 6585 VIDEO STRMING	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity pdf Variable Frequency Drive Type Has Vibration Monitor Y/N Video Compression Video Input Video Output Video Streaming	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VENIPYIDTAG 8582 VERT, LOAD 6580 VED TYPE 6581 VIDEO MINTOR 6582 VIDEO CMPRSS 6583 VIDEO MINUT 6584 VIDEO MINUT 6585 VIDEO MINUT 6586 VIDEO MINUT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Varible Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Output Video Output Video Streaming Video Streaming	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARAINCES 8794 VERIFYIDTAG 5832 VERT. LOAD 6580 VFD TYPE 6581 VIBR MONITOR 6582 VIDEO CMPRSS 6583 VIDEO IMPUT 6583 VIDEO UTPUT 6585 VIDEO UTPUT 6585 VIDEO STRMING	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity pdf Variable Frequency Drive Type Has Vibration Monitor Y/N Video Compression Video Input Video Output Video Streaming	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 0579 VENITOR REQUERANCES 8794 VERIFYIDTAG 8582 VERIFYIDTAG 6583 VED TYPE 6582 VIB MONITOR 6582 VIDEO CMPRS 6584 VIDEO VIPUT 6584 VIDEO STMMIG 8792 VISIBLYINSPECT 6586 VID COND ACC	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Streaming Visibly Inspect Visibly Inspect	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VENIPYIDTAG 8784 VENIPYIDTAG 5852 VERT, LOAD 6580 VED TYPE 6581 VIDEO OMPUT 6583 VIDEO OMPUT 6584 VIDEO OMPUT 6585 VIDEO STRMIG 8792 VISIEURINSPECT 6588 VIL COND OR	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Varible Frequency Drive Type Has Vibration Monitor V/N Video Daput Video Dutput Video Output Video Output Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VERIFYIDTAG 5852 VERT. LOAD 6580 VED TYPE 6583 VIED OMPRIS 6584 VIED COMPRIS 6585 VIED OUTPUT 6585 VIED OUTPUT 6585 VIED OUTPUT 6585 VIED ON ACC 6587 VLT COND OVR	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Straming Video Straming Video Straming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Constraints	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 0570 VENITIOR REQ.CLEARANCES 8794 VERIFYIDTAG 8522 VERIFYIDTAG 8532 VERIFYIDTAG 8582 VERIFYIDTAG 8582 VIER MONITOR 6581 VIED CMPRS 6583 VIED OUTPUT 6584 VIED OUTPUT 6585 VI.T COND ACC 6587 VI.T CONSTRNT 6588 VI.C CONSTRNT 6589 VI.C CONSTRNT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Varible Frequency Drive Type Has Vibration Monitor V/N Video Daput Video Dutput Video Output Video Output Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 9579 VENDOR 9732 VENTING REQ CLEARANCES 8794 VERIFYIDTAG 8582 VECT LOAD 6583 VID TVF 6583 VID COMPSS 6583 VIDEO COMPSS 6584 VIDEO COMPSG 6585 VIDEO COMPSG 6584 VIDEO COMPSG 6585 VIDEO TRAMIG 8792 VISIBLYINSPECT 6586 VIC COND COR 6587 VLT COND COR 6588 VLT CONSTRMT 6589 VLT CONSTRMT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor /VN Video Compression Video toput Video Output Video Output Video Output Video Output Video Contput Video Con	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ.CLEARANCES 8794 VERIFYIDTAG 8582 VERT. LOAD 6583 VED TYPE 6584 VED COMPSS 6585 VIDEO OMPUT 6584 VIDEO MINUT 6585 VIDEO STRIMIG 8592 VERT. COND ACC 6588 VIT. COND ACC 6588 VIT. COND ACC 6589 VIT. COND ACC 6589 VIT. CONSTRNT 6589 VIT. CONSTRNT 6589 VIT. COMP 6590 VIT. COMP 6591 VIT. LO COND	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertify ID Tag, Secure if not secured Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Straming Video Straming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Overall Vault Constraints Vault Corer Size Vault Condoption Vault Condition Has Vault Lid Condition	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 9579 VENDOR 9732 VENTING REQ CLEARANCES 8794 VENEPVIDAG 8582 VECT. LOAD 6583 VIDE OLIPAT 6583 VIDE OLIPAT 6584 VIDE OLIPAT 65854 VIDE OLIPAT 6585 VIDE OLIPAT 6584 VIDE OLIPAT 6585 VIDE OLIPAT 6584 VIDE OLIPAT 6585 VIDE OLIPAT 6584 VIDE OLIPAT 6585 VIDE OLIPAT 6586 VIDE OLIPAT 6587 VIT COND ACC 6588 VIT CONTRNT 6589 VIT COND OR 6589 VIT COND FRZ 6590 VIT TUE CONP 6591 VIT LORAN 6592 VIT LD DRAIN 6593 VIT LD DRAIN 6593 VIT LORAN 6593 VIT LD RAIN	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor Y/N Video Compression Video Output Video Output Video Output Video Output Video Output Video Soutput Video Soutput Video Contput Video Co	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 6579 VENDOR 8734 VERIFYIDTAG 8734 VERIFYIDTAG 8582 VERIFYIDTAG 8582 VERIFYIDTAG 8582 VERIFYIDTAG 8583 VEDO TYPE 6584 VIDEO CMPRS 8584 VIDEO INPUT 6584 VIDEO STMMIG 8792 VISIEVINSPECT 6586 VIT COND ACC 6589 VIT COND ACC 6589 VIT CONSTRAT 6589 VIT CONSTRAT 6590 VIT CONSTRAT 6591 VIT LO COND 6591 VIT LO RAIN	Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Domput Video Duput Video Output Video Output Video Streaming Visibly inspect Vault Condition - Access Vault Condition Vault Condition Has Vault Lid Drain Vault Lid Drain	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENIOR 6579 VENIOR 8734 VERIFYIDTAG 8734 VERIFYIDTAG 8532 VERIFYIDTAG 8532 VERIFYIDTAG 8542 VERIFYIDTAG 8583 VERIFYIDTAG 8584 VIED OLYPE 6585 VIDEO CMPRS 8584 VIED OLYPUT 6585 VIED CSTRMING 8584 VIED OLYPUT 6585 VI.T COND ACC 6588 VI.CONVER SZ 6590 VI.T CONE 6591 VI.T LORNIN 6592 VI.T LORNIN 6593 VI.T SOLT TYP	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertify ID Tag, Secure if not secured Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Streaming Video Output Video Streaming Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Overall Vault Condition Vault Coxer Size Vault Corer Size Vault Corer Size Vault Lid Oraliton Has Vault Lid Drain Vault Lid Oraliton Vault Lid Oraliton Vault Lid Oraliton Vault Lid Oraliton Vault Lid Oraliton Vault Lid Oraliton	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
SSQ: VEHICLE REQUIREMENT SS79: VENDOR SS79: VENDOR S732: VENTING REQ.CLEARANCES S734: VENTING REQ.CLEARANCES S735: VENTI, LOAD SSS2: VERT, LOAD SS82: VERT, LOAD SS83: VIED OWNTOR SS83: VIED OWNUT SS84: VIED OWNER SS85: VIED OWNER SS95: VIED OWNER	Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Domput Video Duput Video Output Video Output Video Streaming Visibly inspect Vault Condition - Access Vault Condition Vault Condition Has Vault Lid Drain Vault Lid Drain	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VERIFYIDTAG 8784 VERIFYIDTAG 8585 VERIFYIDTAG 8580 VED TYPE 6581 VIDEO OLYPE 6582 VIDEO OLYPET 6583 VIDEO OLYPET 6584 VIDEO OLYPET 6585 VIDEO TRIMIG 8592 VISTON KOR 8592 VISTON KOR 8592 VISTON KOR 8593 VIT COND ACC 6584 VIDEO OLYPET 6585 VIDEO TRIMIG 8592 VISTON KOR 8592 VISTON KOR 8593 VIT COND ACC 6589 VIT COND RES 8593 VIT COND RES 8593 VIT LO CONP 8593 VIT LO CONTP 8593 VIT LO CONTP 8593 VIT LO CONTP 8594 VIT SONTP 8595 VIT SEAT NAT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Output Video Output Video Output Video Output Video Output Video Soutput Video Soutput Video Contput Video Con	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
SSQ: VEHICLE REQUIREMENT SS73: VENICR SS74: VENOCR S732: VENITIG REQ.CLEARANCES S734: VENIFYIDTAG SS2: VERT. LOAD SS82: VERT. SCADE SS82: VERT. SCADE SS83: VIED OUTPUT SS84: VIED OUTPUT SS84: VIED ONTRUNSPECT SS88: VIT COND ACC SS84: VIT COND ACC SS84: VIT CONSTRNT SS84: VIT CONSTRNT SS84: VIT CONSTRNT SS95: VIT LD CONT SS95: VIT LD COND SS95: VIT LOC NON SS95: VIT SUT S	Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Domput Video Duput Video Output Video Output Video Streaming Visibly inspect Vault Condition - Access Vault Condition Vault Corer Size Vault Condition Has Vault Lid Drain Vault Lid Drain Vault Lid Orain Vault Lid Orain Vault Secon Type Vaule Secon Type Vaule Secon Type Vaule Secon Type	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 6579 VENDOR 8734 VERIFYIDTAG 8734 VERIFYIDTAG 8532 VERIFYIDTAG 8532 VERIFYIDTAG 8542 VERIFYIDTAG 8532 VERIFYIDTAG 8543 VERIFYIDTAG 8544 VIDEO CMPRS 8545 VIDEO CMPRS 8544 VIDEO CMPRS 8545 VIDEO CMPRS 8544 VIDEO CMPRS 8545 VIDEO CMPRS 8545 VIDEO CMPRS 8546 VIDEO CMPRS 8558 VIDEO STRMING 8588 VIDEO STRMINS 8588 VIDEO STRMINS 8589 VIDEO STRMINS 8589 VIDEO STRMINS 8589 VIDEO STRMINS 8589 VIDEO STRMINS 8599 VIDEO STRMINS 8599 VIDEO STRMINS 8599 VIDEO STRMINS 8599 VIDEO STRMINS	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vertify ID Tag, Secure if not secured Vertify ID Tag, Secure if not secured Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Straming Video Straming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition - Overall Vault Condition Vault Corer Size Vault Corer Size Vault Corer Size Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Seat Material Vaule Seat Material Vaule Seat Material Vaule Seat Material Vaule Edor, Connection	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 7032 VENTING REQ CLEARANCES 8794 VERIFYIDTAG 8784 VERIFYIDTAG 8582 VERT, LOAD 6581 VIDE OUTPE 6582 VIDEO CMPRSS 6583 VIDEO OUTPUT 6584 VIDEO CMPRSS 6585 VIDEO TRIMIG 8584 VIDEO OUTPUT 6584 VIDEO OUTPUT 6585 VIDEO STRMIG 8792 VISIBLYINSPECT 6586 VIL COND ACC 6587 VLT COND OVR 6588 VLT COND OVR 6589 VLT CVENT 6599 VLT SVENT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify Drag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Output Video Output Video Output Video Output Video Straming Visibly Inspect Valk Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition Vault Constraints Vault Constraints Vault Cordition Has Vault Lid Drain Vault Cordition Vault Locy Pge Valke Body Material Valke Seat Type Valke Seat Type Valke Seat Type Valke Seat Type Valke Seat Type Valke Seat Type Valke Seat Connection Valke Seat Connection	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
SSQ: VEHICLE REQUIREMENT SS73: VENDOR SS74: VENDOR S732: VENTING REQ.CLEARANCES S734: VENTING REQ.CLEARANCES S734: VENTING REQ.CLEARANCES S582: VERT. LOAD S582: VERT. LOAD S583: VIED OWNER S584: VIED OWNERS S584: VIED OWNERT S585: VIED OWNERT S584: VIED OWNERT S595: VIED STAMDHTR S597: VIES ALT MORT S597: VIES ALT MORT S587: VIELOCON S575: VIELOCAND S575: VIELOCAND S575: VIELOCAND S575: VIELOCAND	Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Vendy To Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Output Video Output Video Output Video Output Video Streaming Visibly inspect Vault Condition - Access Vault Condition Vault Cordition Vault Condition Vault Lid Orain Vault Lid Orain Vault Lid Orain Vault Lid Orain Vault Body Material Vaule Seat Material Vaule Seat Material Vaule Stem Diameter Vaules Connection Vaulte Cass VAULY Siz	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 6579 VENDOR 8734 VEREFYIDTAG 8734 VEREFYIDTAG 8532 VERT 6581 VIED TYPE 6582 VIED TYPE 6583 VIED OUTPUT 6584 VIED OUTPUT 6584 VIED OUTPUT 6585 VIET COND ACC 6586 VIT COND ACC 6587 VIT COND OVR 6588 VIC CONFINT 6590 VIT COND ACC 6591 VIT LOR NOR 6592 VIT CONP ACC 6593 VIT CONP 6593 VIT CONP 6593 VIT CONP 6593 VIT LOR NIN 6593 VIT COND 6593 VIT SEAT TYP 6595 VIT SEAT TYP 6596	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vertify ID Tag, Secure if not secured Vertify ID Tag, Secure if not secured Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Streaming Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition - Overall Vault Condition Vault Cord Size Vault Cord Size Vault Cord Size Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Ed Vaterial Vaule Seat Material Valve Seat Valve Seat	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 6579 VENDOR 8794 VENDOR 8794 VENDOR 8795 VENDOR 8794 VENPORA 8794 VENPORA 8795 VENPORA 8794 VENPORA 8794 VENPORA 6585 VED ONTOR 6584 VED ONTOR 6585 VED ONPUT 6586 VED ONTOR 6587 VET COND ACC 6588 VED ONTOR 6589 VET COND ACC 6590 VET COND ACC 6590 VET COND ACC 6591 VET COND ACC 6592 VET COND ACC 6592 VET LO BON MAT 6593 VET LO CONP 6594 VET VE ST MAT 6595 VET SET MAT 6597 VET SET MAT 6597 VET SET MAT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Daptet Video Dutput Video Dutput Video Dutput Video Dutput Video Dutput Video Dutput Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition Vault Condition Vault Condition Vault Condition Vault Cordition Vault Condition Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Condition Vault Lid Prain Vault Condition Vault Con	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
SSQ: VEHICLE REQUIREMENT SS73: VENTIC REQUIREMENT SS73: VENTIC REQUIREMENT S732: VENTIOR REQUIREMENT S732: VENTIF REQUIREMENT SS32: VERTIFUDAG SS33: VIEDO UNPUT SS43: VIEDO UNPUT SS54: VIEDO NAGC SS55: VIEDON ACC SS58: VIECONSTINT SS58: VIECONSTINT SS59: VIELOCNINT SS59: VI	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vendy Drag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Output Video O	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 6579 VENDOR 8794 VENDOR 8795 VENDOR 8795 VENDOR 8794 VENDOR 8795 VENPOR 8795 VENPOR 8796 VENPUT 6581 VIDE OURPUT 6582 VIDEO OURPUT 6583 VIDEO OURPUT 6584 VIDEO OURPUT 6585 VIDEO OURPUT 6586 VIDEO OURPUT 6586 VIDEO OURPUT 6587 VIT COND ACC 6588 VILCOND ACC 6589 VIT COND ACC 6599 VIT LD DRAIN 6599 VIT LD RAIN 6599 VIT LD RAIN 6599 VIT SET MAT 6590 VIT VENT 6591 VIT SET MAT 6592 VIT SET MAT </td <td>Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Verifical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Duput Video Duput Video Duput Video Duput Video Duput Video Duput Video Duput Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition Vault Condition Vault Condition Vault Condition Vault Cordition Vault Cordition Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Condition Vault Lid Sec Vault Condition Vault Sec Vault Sec Vault</td> <td>ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td> <td>FT</td> <td>YES/NO</td>	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Verify ID Tag, Secure if not secured Verifical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Duput Video Duput Video Duput Video Duput Video Duput Video Duput Video Duput Video Streaming Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition Vault Condition Vault Condition Vault Condition Vault Cordition Vault Cordition Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Lid Prain Vault Condition Vault Lid Sec Vault Condition Vault Sec Vault	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 8579 VENDOR 8793 VENTIOR REQ CLEARANCES 8794 VENFVIDAG 8582 VEDC VENFSUDAG 8580 VED TVPE 6581 VIDEO COMPSG 6582 VIDEO COMPSG 8583 VIDEO INPUT 6584 VIDEO COMPSG 8584 VIDEO COMPSG 8584 VIDEO COMPSG 8584 VIDEO COMPGG 8584 VIDEO COMPGG 8584 VIDEO COMPGG 8584 VIDEO COMPGG 8584 VIT COMD ACC 65854 VIT COMD ACC 6586 VIT COMD ACC 6587 VIT COMD OR 6589 VIT COVER SZ 6590 VIT COVER SZ 6590 VIT COVER SZ 6590 VIT VIT COMD 6591 VIT LOCOND 6592 VIT LOCON PORI 6593 VIT LOCK TYP 6594 VIT VIT STA MAT 6595 VIT SEAT MAT	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vendor Verify DTag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor /VN Video Compression Video Input Video Output Video Output Video Output Video Output Video Control Video Vide	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
SSQ: VEHICLE REQUIREMENT SS73: VENDOR SS73: VENDOR S732: VENTING REQ CLEARANCES S734: VERIFVIDTAG SS32: VERIFVIDTAG SSS2: VERIFVIDTAG SSS3: VIEDO CMPSS SSS3: VIEDO CMPUT SSS4: VIEDO DMPUT SSS4: VIEDO NACC SSS4: VIEDON ACC SSS4: VIEDON MAT SSS5: VIEDON SSS5: VIEDON<	Specific Vehicle Required Due To Location Restrictions/Capacity Vendr Vendr Vehicle Required Due To Location Restrictions/Capacity Verifue To Tag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor (YN Video Output Video Output Video Output Video Output Video Output Video Output Video Output Video Strating Visibly Inspect Vault Condition - Access Vault Condition - Access Vault Condition - Access Vault Condition Vault Condition Vault Condition Vault Condition Vault Loc Type Value Sead Material Vault Condition Value Sead Type Valve Sead Type Valve Sead Connection Valve Fid Connection Valve Fid Valve Fid Connection Valve Fid Valve Size Valve Size Valve Size Valve Size Valve Size Valve Size Valve Size Valve Size Valve Size Voltage Three Phase Power Supph Ratings	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
8502 VEHICLE REQUIREMENT 6579 VENDOR 8579 VENDOR 8793 VENTIOR REQ CLEARANCES 8794 VENFVIDAG 8582 VERFVIDAG 8582 VERFVIDAG 8582 VERFVIDAG 8582 VERFVIDAG 8582 VERFVIDAG 8582 VERFORMENT 6583 VIDEO OURPUT 6584 VIDEO OURPUT 6585 VIDEO STMMG 8792 VISIBLYINSPECT 6588 VIDEO STMMG 6589 VIT COND ACC 6599 VIT ACON 6599 VIT ACON 6599 VIT SAT MAT 6597 VIT SAT MAT 6597 VIT SAT MAT 6597 VIT SAT MAT 6597 VIT SAT MAT <td< td=""><td>Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vendy Drag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Duput Video Duput Video Duput Video Output Video Streaming Visibly inspect Vault Condition - Access Vault Condition Vault Ud Drain Vault Ud Drain Vault Ud Drain Vault Ud Drain Vault Ud Drain Vault Body Material Valve Seal Type Valve Seal Type Valve Seal Type Valve Stat Material Valve Stat Material Valve Stat Material Valve Stat Material Valve Stat Valve Type Valve Stat Valve Type Valve Stat Valve Type Valve Stat Valve S</td><td>ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN</td><td>FT</td><td>YES/NO</td></td<>	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vendy Drag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Duput Video Duput Video Duput Video Output Video Streaming Visibly inspect Vault Condition - Access Vault Condition Vault Ud Drain Vault Ud Drain Vault Ud Drain Vault Ud Drain Vault Ud Drain Vault Body Material Valve Seal Type Valve Seal Type Valve Seal Type Valve Stat Material Valve Stat Material Valve Stat Material Valve Stat Material Valve Stat Valve Type Valve Stat Valve Type Valve Stat Valve Type Valve Stat Valve S	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN	FT	YES/NO
SSQ: VEHICLE REQUIREMENT SSQ: VEHICLE REQUIREMENT SS79: VENDOR SSQ: VENDOR SSQ: VENDOR SSQ: VENING REQ.CLEARANCES SSQ: VERIFUDAG SSQ: VERIFUTAG SSQ: VERIF	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vendy Drag, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Duput Video Duput Video Duput Video Streaming Video Streaming Video Streaming Video Streaming Vault Condition - Access Vault Condition Vault Condition Vault Condition Vault Lid Drain Vault Lid Drain Vault Lid Drain Vault Ed Type Vaulte Seal Type Vaulte Seal Type Vaule Seal Material Vaule Seal Type Vaule Seal Material Vaule Seal Type Vaule Seal Material Vaule Seal Type Vaulte S	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO VAULT LOCK TYPE
8502 VEHICLE REQUIREMENT 6579 VENDOR 8579 VENDOR 8794 VENDOR 8795 VENDOR 8794 VENPOR 8794 VENPUTAG 8585 VERFIVITAG 8580 VED TYPE 6581 VIBO OMPOT 6582 VIDEO INPUT 6583 VIDEO OMPSI 6584 VIDEO OMPSI 6584 VIDEO OMPSI 6585 VIDEO STAMIG 8792 VISIBLYINSPECT 6588 VIDEO STAMIG 6588 VIDEO STAMIG 6589 VIT COND ACC 6588 VIT COND ACC 6588 VIT COND ACC 6589 VIT COND ACC 6599 VIT COND ACC 6599 VIT COND ACC 6599 VIT COND CON 6591 VIT LO COND 6592 VIT LO COND 6593 VIT LO COND 6594 VIT SEAL TYP 6595 VIT SEAL TYP 6595 VIT SEAL TYP 6595 VIT SEAL TYP 6595 VIT SE	Specific Vehicle Required Due To Location Restrictions/Capacity Vendry Verify ID Tag, Secure if not secured Verify ID Tag, Secure if not secured Verify ID Tag, Secure if not secured Vertical Load Capacity pd Variable Frequency Drive Type Has Vibration Monitor /VN Video Compression Video Output Video Output Video Output Video Straming Video Straming Video Congression Video Straming Video Congression Vall Condition - Access Vault Condition Vault Condition Vault Cordition Vault Loc Type Vault Condition Vall Loc Type Valle Eod Material Valle Cost Type Valle Eod Material Valle Seat Type Valle Seat Type Valve End Connection Valle Eod C	ALN ALN NUMERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO VAULT LOCK TYPE
8502 VEHICL REQUIREMENT 6579 VENDOR 6579 VENDOR 8732 VENTING REQ CLEARANCES 8734 VENIFVIDAG 8735 VERIFVIDAG 8736 VERIFVIDAG 8736 VERIFVIDAG 8736 VERIFVIDAG 8737 VERIFVIDAG 8738 VERO UNTOR 6538 VIEDO UNTOR 6538 VIEDO UNPUT 6538 VIEDO UNPUT 6538 VIEDO ONTPUT 6538 VIEDO ONTPUT 6538 VIEDO ONTPUT 6539 VICTON DACC 6538 VICOND OR 6539 VICTOND OR 6539 VICTOND VICTOR 6539 VICTONT 6539 VICTONT 6539 VICTONT <tr< td=""><td>Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Vendy Torg, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Dompression Video Doutput Video Dutput Video Dutput Video Dutput Video Streaming Visibly Inspect Vault Condition - Access Vault Condition Vault Corber Vault Condition Vault Corber Vault Condition Vault Corber Vault Condition Vault Condition Vault Corber Vault Condition Vault Condition Vault Corber Vault Condition Vault Condition Vault Corber Vault Condition Vault Corber Vault Condition Vault Corber Vault Cor</td><td>ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN</td><td></td><td>YES/NO YES/NO VAULT LOCK TYPE</td></tr<>	Specific Vehicle Required Due To Location Restrictions/Capacity Vendy Vendy Torg, Secure if not secured Vertical Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Dompression Video Doutput Video Dutput Video Dutput Video Dutput Video Streaming Visibly Inspect Vault Condition - Access Vault Condition Vault Corber Vault Condition Vault Corber Vault Condition Vault Corber Vault Condition Vault Condition Vault Corber Vault Condition Vault Condition Vault Corber Vault Condition Vault Condition Vault Corber Vault Condition Vault Corber Vault Condition Vault Corber Vault Cor	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO VAULT LOCK TYPE
SSQ: VEHICLE REQUIREMENT SS73: VENDOR SS73: VENDOR S732: VENTING REQ CLEARANCES S734: VERTIVDAG SSS2: VERT. LOAD SSS3: VERT. LOAD SSS3: VERT. LOAD SSS4: VERT. LOAD SSS3: VERT. LOAD SSS4: VERD VERT SSS4: VED OURPUT SSS4: VED CON NACC SSS5: VED CONSTINT SSS8: VET COND ACC SSS8: VET CONSTINT SSS5: VET CONSTINT SSS5: VET COND SSS5: VET COND SSS5: VET VE CONP SSS5: VET VE COND SSS5: VET VE COND <	Specific Vehicle Required Due To Location Restrictions/Capacity Vendor Vendor Verifue Load Capacity psf Variable Frequency Drive Type Has Vibration Monitor V/N Video Compression Video Compression Video Output Video Joutput Video Joutput Video Joutput Video Joutput Video Input Valit Constrints Vault Condition - Access Vault Condition Value Scale Material Val	ALN ALN NUMRERIC ALN ALN ALN ALN ALN ALN ALN ALN ALN ALN		YES/NO YES/NO VAULT LOCK TYPE
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6200 W/P BELT	W/P BELT NO.	ALN			
5899 WALL COND.	Wall Infiltration or Spalling	ALN			
6603 WALL FIN TYP	Wall Finish Type	ALN			
5532 WARRANTY	warranty date	ALN			
6076 WARRANTY (FR	Warranty (from)	ALN			
6077 WARRANTY (TO	Warranty (to)	ALN			
8846 WATER CONNECTION	Size	NUMERIC			
6604 WATER PRESSR	Water Pressure	ALN			
8842 WATER SUPPLY	GPM	NUMERIC			
5785 WATTAGE	Fixrue wattage	NUMERIC			
7108 WATTS		ALN			
6605 WAVE FORM	Wave Form	ALN			
6606 WEB REQMNTS	Web Browsing Requirements	ALN			
7266 WECC COMPLIANCE	PRC-005, OTHER	ALN			
6059 WEIGH	WEIGH	ALN			
5606 WEIGHT	WEIGHT	ALN	LBS		
7028 WEIGHT DRY		NUMERIC	LB		
7030 WEIGHT FILLED			LB		
9954 WEIR STRUCTURE	Weir Structure	ALN	Y/N		
6607 WELDER TYPE	Welder Type	ALN		WELDER TYPE	
6182 WHEEL BASE	WHEEL BASE	ALN			
5827 WIDTH	WHEEL BASE Width in Feet	ALN			
7738 WIEGHT	Widthin Feet	ALN	LBS		
			LBS		
5741 WIND CONFIG	Winding Configuration	ALN			
10246 WIND DIRECTION	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
5854 WIND LOAD	Wind Load Capacity psf	ALN			
10244 WIND SPEED	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
8344 WIND_DIRECTION	Wind Direction	ALN			
8342 WIND_SPEED	Wind Speed	ALN			
5866 WINDING	Winding	ALN			
9758 WINDING CONFIGURATION (DELTA OR Y)	WINDING CONFIGURATION (DELTA OR Y)	ALN			
7016 WINDING MATERIAL	COPPER, ALUMINUM	ALN			
5889 WINDINGTEMP		ALN			
6608 WINDNG RTD N	Winding RTD Number	ALN			
6609 WINDNG RTD T	Winding RTD Type	ALN			
6610 WINDOW TYPE	Type of Windows	ALN			
5891 WINDTEMPHI	Winding Temp High	ALN			
5536 WIRES	WIRES	ALN			
8062 WO_PKG	Work Order Package/Sequence	ALN			
7320 WONUM	Work Order Number	ALN			
10262 WOOD FUEL	Y/N, MAKE, MODEL, SERIAL NUMBER.	ALN			
6611 WRNTY DLVRY	Warranty Based on Delivery	ALN			
6612 WRNTY INSTL	Warranty Based on Installation	ALN			
6613 WSTMGTCTRTID	Waste Management Contractor ID	ALN			
6614 WTR TRMT TYP	Type of Water Treatment	ALN			
9908 WWE_SYSTEM	WWE System	ALN			
9882 X COORDINATES	X Coordinates	ALN			
6615 XPANSION VLV	Expansion Valves	ALN			
5478 X-STR	CROSS STREET	ALN			
5780 XSTREET	Cross Street Name	ALN			
9884 Y COORDINATES	Y Coordinates	ALN			
5465 YEAR	YEAR MODEL	ALN			
6616 YK BSS DMTR	Yoke Boss Diameter	ALN			
6617 ZIP	Zip	ALN			
6060 ZONE	ZONE	ALN			
6618 ZONE DESC	Zone Description	ALN			
6619 ZONE ID	Zone ID	ALN			
6620 ZONE TYPE	Zone Type	ALN			
	Zone Type Zoning	ALN			

APPENDIX H WST West Yost Meeting Notes

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		WST West Yost Meeting Notes
Criteria	SubCriteria	HHWP Meeting Notes
Asset Registry	Business Processes for Asset Creation and Modification	Maximo is used. Maintenance Planning Group adds and modifies assets and are the registry owners.
		QAQC is monitored primarily during asset creation vs updates. No formal program to update the asset registry.
		Assets are evaluated for completeness as staff resources are available. New projects generate an equipment list (Equipment Data Sheet) that Maintenance Planners import into Maximo. The Equipment Data Sheet is QA/QC'd only about 10%.
		Initial Maximo registry in 1999 was loosely imported from previous database and had scrubbing, data standards or role/permission-based control.
	Asset Registry	Staff follows the CMMS Business Practices Policy (2011). This policy is being updated.
		Asset Registry is about 85% complete.
		~13000 assets are in the registry and ~3000 to 4000 are not registered. Registry is being updated to add classifications and attributes. Staff is focusing on populating more attributes.
		Staff want to incorporate more asset identification and loading during the design process.
	Asset Registry	Location is the primary indicator.
	Hierarchy	Currently follow a Facility, Process, Subprocess structure.
		Not a proper hierarchy but will develop one as part of the registry expansion above.
	Asset	Attributes and Classifications are enterprise-wide.
	Classification Domain	Staff wants to pare the domain down as it is broad.
	Asset Attribute Domain	Maximo Best Practices Group governs Maximo.
	Asset Definition	2008 Policy defines assets as >\$5,000 value for Finance purposes.
	Policy for updating asset	In reality there are assets valued lower in the registry due to criticality. Plan is to tighten the definition and captured asset more.
	registry	Staff does consider criticality, maintenance needs, run-to-fail, and regulatory requirements in asset selection. Asset Life is not considered.
		No formal process. Periodic condition assessment activity will identify asset mods and new
		assets. Input from field staff as to asset accuracy is acted upon and assets are modified accordingly.
IT capabilities to support AM	List of software tools such as Maximo, GIS, InfoAsset, etc. including version	
	Data Flow Diagram	
	Modules for software tools	
	Discovery Tools	



		WST West Yost Meeting Notes
Criteria	SubCriteria	HHWP Meeting Notes
	Mobile connectivity Platform	
	IT Staffing dedicated to Asset Management Systems	
	Infrastructure replacement and refresh policy	
	IT budget for asset management hardware and software support.	
	LAN/WAN Platforms (diagram/map)	
	Patch Management Plan	
Risk procedures	Security Plan - Public/Private access, Firewall Risk Policy	No formal risk policy. No risk rating for assets. Work order priority is based on work type and institutional knowledge and not formal related risk. Staff does formal planning of work using collaboration and institutional knowledge. No formal Risk Program but priority is discussed. Monthly meetings (East Bay and West Bay) to prioritize work.
	Business Process for Criticality Assessment	Criticality is evaluated at the Facility/Process level during bi-annual budgeting.
	Description of Risk management tools currently in use	
O&M	Risk Register	Some assets are flagged as critical in Maximo (ad hoc).
improvement	Criticality criteria and definitions	Not a formal process but during CIP planning staff uses a 123 priority scale.
	Maintenance Management	PM and PdM programs follow manufacturer specifications and institutional knowledge. PM's are run-time and calendar based as well as regulatory based. Regulatory related PM's are given high priority.

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		WST West Yost Meeting Notes
Criteria	SubCriteria	HHWP Meeting Notes
		SCADA is not integrated so run-time and other asset relate data are manually loaded into Maximo and scheduled.
	Maintenance Management	
	Maintenance Management	Maintenance Planners set up PM's in Maximo. The CMMS Business Practices Policy includes a 9-level priority hierarchy, classifies work type (Corrective, Preventative, Administrative, Operations and Project), role-based responsibilities, backlog management, and work order status'. Work is manually planned and scheduled. Backlog is managed by maintenance supervisors. Planners and Managers can change status. Maximo workflow is not used. Reporting is used to identify follow-on or corrective work and modify maintenance plans.
Condition Assessment	Maintenance Management	Asset performance data is used more for life cycle management. Line staff use institutional knowledge for decision-making.
and Remaining Useful Life	Work Management	Would like a more data-centric approach. PdM is only Vibration Analysis currently.
(RUL)	Work Management	Actuals are not readily collected. LINEAR ASSETS
	Business Process for Condition Assessment	20-year rolling outlook that has waned slightly in past 10-years. Tunnels - 20 years Steel pipe - 10 years PCCP - 5 years visual and electromagnetic analysis PUC has developed its own electromagnetic condition assessment. PUC performs some pipe lining repairs in-house and other work is with contractors. Sunol facility has a plate rolling facility for repairing PCCP. Good emergency preparedness with a lot of pipe stockpiled around the service area. VERTICAL ASSETS Periodic asset walkdowns WSIP renewed a lot of infrastructure. Older facilities are ad hoc. Last condition assessment was in 2009. LINEAR ASSETS
	Condition criteria and definitions Remaining Useful Life (RUL)	LINEAR ASSETS Typically based on visual inspection and sounding. Doing some leak detection using acoustic listening. Inspections scheduled by age and material. VERTICAL ASSETS Typically vibration and visual inspection Horizontal Assets based on asset age and condition. Vertical Assets are based on age Staff recognizes they are not where they want to be on replacement planning and want a more robust methodology. New CMMS policy will develop a more analytical procedure.
	Policy for updating RUL	Vertical assets are evaluated bi-annually during CIP planning Horizontal assets are evaluated during the periodic 5, 10 or 20-year cycle.



		WST West Yost Meeting Notes
Criteria	SubCriteria	HHWP Meeting Notes
	Condition Assessment Register	Asset condition is not noted in the asset registry in Maximo. Condition is documented in separate reports of memoranda.
Replacement Planning Service Level goals	Rehabilitation and Replacement Planning	
	Rehabilitation and Replacement Funding	R/R funding is maintained in different funds by facility. Funding is from rates. No policy is in place for fund expenditures.
	Rehabilitation and Replacement Expenditure Policy	
	Service Level definitions for asset management	LOS is not measured or maintained at the asset level.
Connection to other plans ie: Strategic Plan, CIP, etc	Capital Improvement Plan	 Quantifiable Operational and Capital LOS goals by enterprise is a Commission-level objective. Not defined yet There is no formalized approach to asset management other than to use Maximo. There is a culture of collaboration which does support asset management. Prioritization is done during the CIP process but no uniform prioritization guidelines. Currently conducting an RRA. Good emergency mutual aid through Cal WARN.
Supply Chain	Business Process and Policy for Supply Chain	Maximo is used for PR/PO. Initiates in Maximo and then approved in PeopleSoft (financial). Maximo used for warehouse management. Receiving is done in Maximo.
	Item Master Export	Warehouse not used for asset parts. Mostly consumables. Spare parts are at facilities and are not managed as part of inventory control. Tools are managed in Maximo and are issued to work orders.
	Warehouse Management	Central Receiving warehouse is in Millbrae. Other storerooms are not in Maximo.
	Warehouse Management	Materials reservations are not performed. Work order parts are ordered directly for the work order or from informal parts storage described above.
	Warehouse Management	
	Warehouse Management	Staff conducts annual physical inventory. Losses are documented. No cycle counting.
Staff Plan	Staff matrix and job description	Engineering Two mechanical engineers and one electrical engineer support troubleshooting.

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	WST West Yost Meeting Notes		
Criteria	SubCriteria	HHWP Meeting Notes	
		Dam Management/ROW Management/USA and GIS.	
		Maintenance	
		Maintenance Staff are all certified Operators.	
		One Maintenance Manager, Three Maintenance Planners	
		No Warehouse Management	
		Electricians and Technicians.	
		Operations	
		Stationary Engineers	

APPENDIX I WST Asset Classification and Hierarchy Index

Water Supply & Treatment Division Interoffice Memorandum

Subject:	Asset Classification Index
Date:	April 2, 2010
From:	Kent Nelson
То:	David A. Briggs

PURPOSE

The primary purpose of this memorandum is to summarize the classification of assets applied to the Computerized Maintenance Management System (CMMS) database. Asset classification at the CMMS level must also be consistent with capital project planning (and its corresponding budgeting) and the fixed-asset database which is used for a variety of financial functions. Therefore, a secondary purpose of this memorandum is to demonstrate the use of a consistent asset classification system for all SFPUC functions.

DISCUSSION

All assets in the Regional Water System are included in one of five general classes: transmission, storage, treatment, buildings and watersheds, and equipment (see Figure 1). Below this level of general classification, assets are individually identified, generally as stand-alone distinct facilities, such as Harry Tracy Water Treatment Plant, etc.. Assets are given unique identification numbers and tracked in the Fixed Asset Accounting System (FAACS). Assets are entered into FAACS by Finance Department staff following capital project close-out by Infrastructure Division staff. FAACS is used to compute the present value of assets net of depreciation, which is usually assumed to be linearly projected over a length of time unique to each class of asset (for example, 50 years for a pump station, 75 years for a pipeline, etc.).

There are roughly 150 individual assets in the RWS, not including individual rolling stock and other large operating equipment.

The CMMS system operates at a level immediately below FAACS picking up all of the related equipment and components that are maintained to support a given asset. There are thousands of pieces of equipment and components in the CMMS. The CMMS houses data related to equipment (and therefore, asset) condition, performance history, expenditures on maintenance, and types of maintenance performed.

Condition assessment and performance data are an important linkage between data in the CMMS and data in FAACS; that is, when investments are made in preventative maintenance, the assumed depreciation in FAACS would ideally be modified.

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A consistent index system is presently being developed between the capital planning, FAACS, and CMMS so that the capital project management, financial accounting, and long-term maintenance functions for an asset can be consistently referenced. Within the CMMS, all assets are systematically named using unique twelve-digit alpha-numeric codes in the following format:

XXX-YYY-ZZZ-###

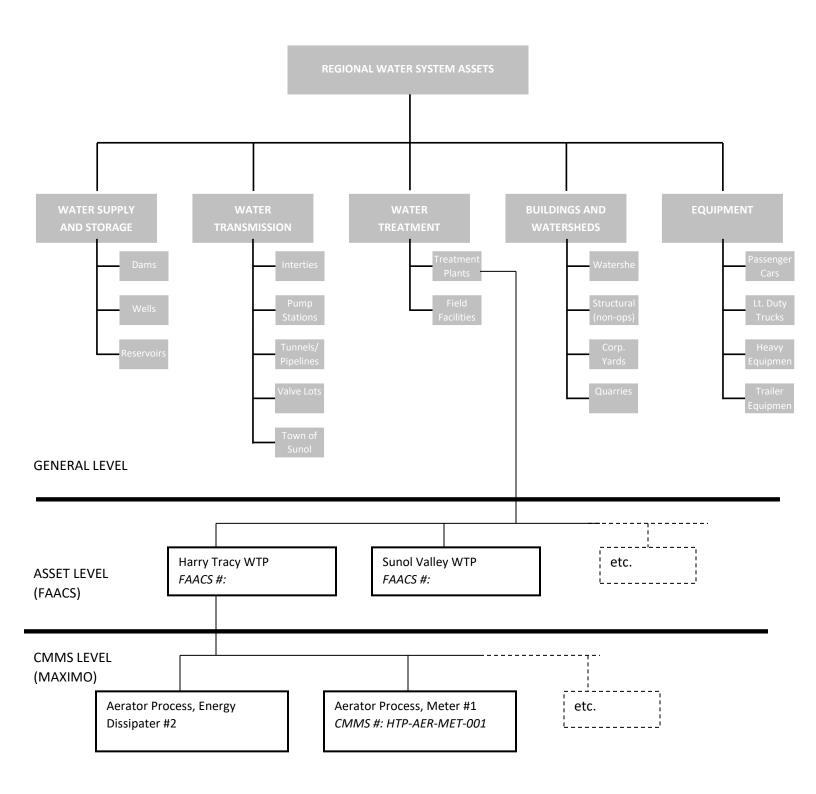
where:

XXX = Facility Location Code, YYY = Process Code, ZZZ = Equipment Type Code, and ### = Identification Number

Tables 1, 2 and 3 define MAXIMO each Facility Location, Process and Equipment Type Codes, respectively, used in this process. Table 1 also summarizes the facility type of each asset that corresponds to the asset hierarchy established for the regional water system.

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Figure 1: Asset Hierarchy for Regional Water System



Facility Name	Location Code	Asset Type
Millbrae Yard	MBR	Corporation Yard
Sunol Yard	SYD	Corporation Yard
Alameda Creek Diversion Dam	ACD	Dam
Calaveras Dam	CLD	Dam
Crystal Springs Dam	CSD	Dam
Pilarcitos Dam	PLD	Dam
San Mateo Creek Dam No. 1 (Mud Dam No. 1)	SD1	Dam
San Mateo Creek Dam No. 2 (Mud Dam No. 2)	SD2	Dam
San Andreas Dam	SND	Dam
Stone Dam	STD	Dam
Turner Dam	TRD	Dam
EBMUD Intertie	EBI	Intertie
SCVWD Intertie	SCI	Intertie
Casey Quarry	CSQ	Quarry
East Bay Wells	EBW	Well
Mount Allison Radio Station	MAL	Structure (non op)
Sawyer Ridge Radio Station	SAW	Structure (non op)
Skyline Quarry	SKY	Quarry
Town of Sunol Distribution System	SUN	Town of Sunol
Baden Pump Station	BPS	Pump Station
Crystal Springs Pump Station	CPS	Pump Station
Pulgas Pump Station	PPS	Pump Station
San Antonio Pump Station	SPS	Pump Station
Calaveras Reservoir	CAR	Reservoir
Castlewood Reservoir	CWR	Reservoir
Lower Crystal Springs Reservoir	LCR	Reservoir
Niles Reservoir	NIL	Reservoir
Pulgas Balancing Reservoir	PBR	Reservoir
Pilarcitos Reservoir	PIL	Reservoir
San Andreas Reservoir	SAN	Reservoir
San Antonio Reservoir	SAT	Reservoir
Upper Crystal Springs Reservoir	UCR	Reservoir
Harry Tracy Water Treatment Plant	HTT	Treatment Plant
Lawrence Livermore Lab Site 300 Treatment Facility	LAW	Field Facility
Pulgas Dechloramination Facility	PDF	Field Facility
San Antonio Dechloramination Facility	SDF	Field Facility
Sunol Valley Chloramination Facility	SVC	Field Facility
Sunol Valley Water Treatment Plant	SVP	Treatment Plant
Tesla Treatment Facility	TES	Field Facility
Thomas Shaft	TSH	Field Facility
Alameda East Portal	AEP	Tunnel/Pipeline
Alameda West Portal	AWP	Tunnel/Pipeline
Alameda Siphon No. 1	AS1	Tunnel/Pipeline

Facility Name	Location Code	Facility Type
Alameda Siphon No. 2	AS2	Tunnel/Pipeline
Alameda Siphon No. 3	AS3	Tunnel/Pipeline
Alameda Siphon No. 4	AS4	Tunnel/Pipeline
Bay Division Pipeline No. 2	BD2	Tunnel/Pipeline
Bay Division Pipeline No. 3	BD3	Tunnel/Pipeline
Bay Division Pipeline No. 4	BD4	Tunnel/Pipeline
Bay Division Pipeline No. 5	BD5	Tunnel/Pipeline
Bay Division Pipeline No. 1	BD1	Tunnel/Pipeline
Calaveras Pipeline	CAL	Tunnel/Pipeline
Crystal Springs Bypass Tunnel No. 1 (old)	CB1	Tunnel/Pipeline
Crystal Springs Bypass Tunnel No. 2 (new)	CB2	Tunnel/Pipeline
Crystal Springs Pipeline No. 1	CS1	Tunnel/Pipeline
Crystal Springs Pipeline No. 2	CS2	Tunnel/Pipeline
Crystal Springs Pipeline No. 3	CS3	Tunnel/Pipeline
Crystal Springs-San Andreas Pipeline	CSA	Tunnel/Pipeline
Irvington Portal	IVP	Tunnel/Pipeline
Irvington Tunnel No. 1 (old)	IT1	Tunnel/Pipeline
Irvington Tunnel No. 2 (new)	IT2	Tunnel/Pipeline
Palo Alto Pipeline	PAP	Tunnel/Pipeline
Pulgas Tunnel	PGT	Tunnel/Pipeline
Pleasanton Wells Pipeline	PWL	Tunnel/Pipeline
San Andreas Pipeline No. 2	SA2	Tunnel/Pipeline
San Andreas Pipeline No. 3	SA3	Tunnel/Pipeline
San Andreas Pipeline No. 1	SA1	Tunnel/Pipeline
Stone Dam Tunnel	SDT	Tunnel/Pipeline
San Antonio Pipeline	SPL	Tunnel/Pipeline
Sunset Branch Pipeline	SSB	Tunnel/Pipeline
Sunset Supply Pipeline	SSP	Tunnel/Pipeline
San Mateo Tunnel No. 1	ST1	Tunnel/Pipeline
San Mateo Tunnel No. 2	ST2	Tunnel/Pipeline
Stanford Tunnel	STT	Tunnel/Pipeline
Baden Valve Lot	BAV	Valve Lot
Barron Creek Valve Lot	BCV	Valve Lot
Bear Gulch Valve Lot	BGV	Valve Lot
Bellevue & Pepper Valve Lot	BPV	Valve Lot
Caisson	CAI	Valve Lot
Crystal Springs/El Cerrito Valve Lot	CEV	Valve Lot
Calaveras Valve Lot	CLV	Valve Lot
Capuchino Valve Lot	CPV	Valve Lot
Crawford Valve Lot	CRV	Valve Lot
Dumbarton Valve Lot	DBV	Valve Lot
El Camino Real/Bellview Valve Lot	EBV	Valve Lot
El Camino Real/Millbrae Yard Valve Lot	EMV	Valve Lot
Edgewood Road Valve Lot	ERV	Valve Lot
Guadalupe Valve Lot	GDV	Valve Lot

Facility Name	Location Code	Facility Type
Geneva Valve Lot	GNV	Valve Lot
Grimmer Shutoff Station	GRV	Valve Lot
Hillsborough Valve Lot	HBV	Valve Lot
Mission and Palm Avenue Valve Lot	MPV	Valve Lot
Mountain View/Alviso (Mary)Valve Lot	MAV	Valve Lot
Newark Valve Lot	NKV	Valve Lot
Newark Tunnel Shaft	NWT	Valve Lot
Pulgas Valve Lot	PLV	Valve Lot
Polhemus Valve Lot	PHV	Valve Lot
Paseo Padre Shutoff Station	PPV	Valve Lot
Ravenswood Valve Lot	RAV	Valve Lot
Redwood City Valve Lot	RCV	Valve Lot
Ravenswood Tunnel Shaft	RVT	Valve Lot
Sneath Lane Valve Lot	SNE	Valve Lot
San Pedro Valve Lot	SPV	Valve Lot
Southwest Corner Valve Lot (Stanford Tunnel)	SWV	Valve Lot
Taylor Field Valve Lot	TFV	Valve Lot
Tissiack Valve Lot	TSV	Valve Lot
West Valve House (Stanford Tunnel)	WSV	Valve Lot

 Table 2:
 MAXIMO Process Codes

Process Name	Process Code
Aerator	AER
Aftercooler	AFC
Air Scour	ARS
Aluminum Sulfate	ALS
Anionic	ANI
Aqua Ammonia	AQA
Bypass Connection	BYP
Calcium Thiosulfate	CTS
Carbon Dioxide	CAD
Cationic Polymer	CAT
Chloramination	CHL
Cooling Water	COW
Cross connection	CRC
Dessicant	DES
Domestic Hot Water	DHW
Drainage and Conveyance	DRA
Effluent	EFF
Electrical Power	ELP
Ferric Chloride	FEC
FILTER	FIL

Process Name	Process Code
Filter Aid	FIA
Filter Backwash	FBW
Filtered Water	FIW
Fire Protection	FIP
Flash Mix	FLM
Floccculation	FLO
Fluoride	FLU
HVAC	HVC
Influent	INF
Instrument Air Supply	IAS
Irrigation	IRR
Liquid Oxygen	LOX
Natural Gas	NAT
No Process	***
Non Anionic	NOA
Oxygen	OXY
Ozone Contactor	OZC
Ozone Destruct	OZD
Ozone Generate	OZG
Ozone Process	OZO
Parcel	PAR
Polymer	POL
Potassium Permanganate	POP
Pump Station	PSN
Raw Water	RAW
Refrigerated Process Components	REF
Residuals Thickening & Dewatering	RTD
Road	RDS
Safety	SAF
Sedimentation	SED
Service Connection	SRV
Sludge	SLU
Sodium Bisulfite	SOB
Sodium Hydroxide	SHY
Sodium Hypochlorite	SOH
Structure	STR
Tools	TOL
Transmission Pipeline	TPL
Treated Water-Potable	TWP
Utility Gas Supply	UGS
Utility Water Supply	UWS
Valve Lot	VLO
Wash Water	WAW
Well	WEL

Equipment Type	Equipment Code
Accumulator; Air, Water & Chemical	ACC
Actuator; Electric & Hydraulic	ACT
Adit Structure	ADT
After Cooler	AFC
Air Conditioner	AIR
Air Reciever	ARC
Air Release Valve	ARV
Air Separator	ASP
Air Vaccum Valve	AVV
Analysis Element	AEX
Analysis Indicating Device	AIX
Analyzing Indicating Transmitter	AIT
Automatic Transfer Switch	ATS
Back Flow Preventer	BFP
Back Pressure Valve	BPV
Basin; Flocculation & Sedimentation	BAS
Battery Charger	BAC
Battery Pack and Modules	BAT
Blow off	BOV
Blower	BLO
Boathouse	BOT
Boiler	BOL
Building; Constructed, Modular and Pre-fabricated	BLD
Calibration Column	CAC
Capacitor	CAP
Cathodic Protection Components	CTP
Check Valve	CHV
Chemical; Generated Related System Components	CHE
Circuit Breaker	CBK
Clearwell	CLW
Closed Circuit Television System	ССТ
Collectors	COL
Compressor; Air, Natural Gas & Refrigerant	COM
Control Panel; Main & Local	CPA
Cottage	СОТ
Crane	CRN
Dam	DAM
Datalogger	DAL
Destruct Unit; Ozone & other Process Byproducts	DES
Dewatering Units; Screw & Centrifuge	DWR
Disconnect Switch - Electrical	DSS
Distributed Control System	DCS
Dryer; Air, Dessicant & Refrigerant	DRY
Eductor	EDU

 Table 3:
 MAXIMO Equipment Type Codes

Equipment Type	Equipment Code
Electrical Distribution Panel	EDP
Electrical Pull Box	PBX
Electrical; General Related System Components	ELC
Emergency Light	EML
Emergency Standby Generator	ESG
Eyewash & Safety Shower Safety Station	EYE
Eyewash Station	EWS
Fan; Ventilation	FAN
Feeder - Chemical Treatment	FED
Filter Control Console	FCC
Filter; Dual Bed, Mixed Media & Sand	FIL
Fire Extinguisher	FRX
Fire Protection System Components	FIR
Flocculator	FLC
Flow Control Valve	FCV
Flow Indicating Controller	FIC
Flow Indicating Device	FIX
Flow Measuring Element	FEX
Flow Rate Indicating Transmitter	FIT
Fuel Polishing System & Components	FPS
Fuel System & Components; Natural Gas	FUL
Garage	GAR
Gate	GAT
Gate; for Facility Security	SEG
Gate; Sluice & Slide	GAT
Gauge	GAU
Gear Box; Valve Operator	GBX
General Laboratory & Field Analyzing Instruments	INS
Generator; Ozone & Portable Units	GEN
Harmonic Filter	HRF
Heat Exchanger	HEX
Heater	HTR
Heating Element	HEE
Hopper	HOP
Hydraulic Systems & Components	HYD
Injector	INJ
Input & Output PLC Modules	IOM
Input & Output PLC Panels & Cabinets	IOP
Instrument	INS
Instrument Pull Box	IPB
Inverter; Power	INV
Isolation Diaphragm	ISO
Lagoon	LAG
Level Control Valve	LCV
Level Indicating Controller	LIC
Level Indicating Transmitter	LIT

Equipment Type	Equipment Code
Level Measuring Element	LEX
Level Switch	LSW
Lighting Distribution Panel	LDP
Manhole; Electrical & Inspection	МНО
Manual Transfer Switch	MTS
Meter	MET
Miscellaneous Equipment - General	MIS
Mixer	MIX
Motor	МОТ
Motor Control Circuit	MCC
Networks; WAN & LAN & Related Switching	NICT
Components & Hubs	NET
No Equipment	***
Panel; General Use	PNL
Personal Desktop Computer & Peripheral	РСР
Components	
Pipeline; Raw & Treated Water	WPL
Position Control Valve	ZCV
Position Indicating Controller	ZIC
Position Indicating Device	ZIX
Position Indicating Transmitter	ZIT
Power	POW
Power Indicating Device	JIX
Power Indicating Transmitter	JIT
Power Supply Units	PSU
Pressure Control Valve	PCV
Pressure Differential Indicating Controller	PDC
Pressure Differential Indicating Transmitter	PDT
Pressure Indicating Controller	PIC
Pressure Indicating Device	PIX
Pressure Indicating Transmitter	PIT
Pressure Measuring Element	PEX
Pressure Regulator	PRE
Pressure Relief Valve	PRV
Pressure Switch	PSW
Programmable Logic Controller	PLC
Pulsation Dampener	PLD
Pump; All types	PMP
Radio; Communication System and Components	RAD
Recovery Pond	RPD
Rectifier	RCT
Relay; Electrical All Functions	REL
Remote Terminal Unit	RTU
Reservoir	RES
Right of Way	ROW
Safety Related Equipment & Devices	SAF

Equipment Type	Equipment Code
Safety Shower	SHO
Scraper	SCR
Seismic Control Unit	SCU
Seismic Control Valve	SCV
Self-Contained Breathing Apparatus	SBA
Service Connection	SCN
Shed	SHD
Solenoid	SOL
Spare	SPR
Speed Indicating Controller	SIC
Speed Indicating Device	SIX
Speed Indicating Transmitter	SIT
Speed Switch	SSW
Strainer	STR
Streaming Current Monitor	SCM
Substation	SUB
Supervisory Control and Data Acquisition	SCA
Switch Board	SWB
Switch; Mechanical & Electrical	SWT
Switchgear	SWG
System	SYS
Tank; Water, Oil & Chemical	TNK
Telephone	TEL
Temperature Control Valve	TCV
Temperature Indicating Controller	TIC
Temperature Indicating Device	TIX
Temperature Indicating Transmitter	TIT
Temperature Measuring Element	TEX
Temperature Switch	TSW
Transformer	TRF
Transient Voltage Surge Suppressor	TRN
Treated Water Reservoir	TWR
Tunnel; Access & Pipeline	TUN
Ultrasonic Level Sensor	ULS
Uninterruptable Power Supply	UPS
Valve	VAL
Valve House	VHS
Vaporizer	VAP
Variable Frequency Drive Unit	VFD
Vault Structure; Pipeline & Access	VLT
Vibration Indicating Device	VIX
Vibration Indicating Transmitter	VIT
Voltage Indicating Transmitter	EIT
Voltage Surge System	VSS
Water	WTR

All existing assets in MAXIMO are now being converted into the new format. This effort is scheduled to be completed by April 1, 2010 and will require additional support for the SFPUC ITS group. Once completed, equipment identification tags using this new format will be created and installed by staff on each piece of equipment.

KRN

APPENDIX J WST CMMS Business Practices Policy

		Proced	lure Approval			
Author:	krnelson	Date:	10/5/11	Revision #:	01	Date:
Approved By:		Date:		Supercedes:	7/1/09 original	
Approved By:		Date:		-		-

Sa	an F	Wat	cisco Public Utilities Commission er Supply & Treatment Division Policies & Procedures CMMS BUSINESS PRACTICES
Table of Contents	Key Pro	ective Defin cedur	<u>iitions</u>
<u>Scope</u>	1.0	Scop	De:
		1.1	These procedures establish the maintenance business practices using the Division's Computerized Maintenance Management System (MAXIMO). This policy shall apply to all maintenance of the regional water system managed by Water Supply and Treatment Division.
<u>Objective</u>	2.0	Obje	ctive:
	-	2.1	The objective of these procedures is to document and specify maintenance workflow from inception and input into MAXIMO through final completion and close-out in MAXIMO, and to define common terminology and levels of responsibility for standardization across the Division. These procedures are part of a broader effort to reduce unplanned
		2.2	outages, reduce life cycle costs, increase the efficacy and efficiency in tracking work, and provide a higher level of fiscal management and oversight.
Key Definitions	3.0	Key	Definitions:
		3.	.1 Blanket Work Order: Blanket work orders cover only two types of work: 1) general tasks to be completed at a treatment facility by SYSOPS staff only; and 2) indirect administrative work for supervisors. Blanket work orders are established at the beginning of each fiscal year and after preliminary review, are immediately approved. All blanket work orders remain open throughout the fiscal year but are closed at the end of each fiscal year.
		3.	.2 Child Work Order: The lower of two levels of work orders. Child work orders are usually assigned to an individual task or trade working on a larger project under a parent work order. Each child work order can be planned and scheduled individually. Estimated vs. actual costs are accrued by each child work order and then rolled up into the parent

work order. Child work orders of child work orders (grandchild WOs) are not allowed.

- 3.3 **CIP:** Capital Improvement Program. This program is used to plan expenditures on future capital projects over a specified time period and includes both R&R and the FMF.
- 3.4 **CMMS:** Computerized Maintenance Management System (e.g. MAXIMO)
- 3.5 **Corrective Maintenance (CM):** This work type is for any unforeseen equipment trouble or failure that is discovered by field observations/condition assessment or by SCADA alarms. Corrective maintenance can be considered either expected or unexpected work.
- 3.6 **DTIS:** Department of Telecommunications and Information Systems
- 3.7 **Expected Work:** Any work taken on a proactive basis that has been pre-scheduled, i.e. any corrective maintenance work order having a priority code of "5 High", "2 Normal", or "1 Low". All expected work requires a job plan.
- 3.8 **FMF:** Facilities Maintenance Fund. Requires a Project Request Form.
- 3.9 **Index Code/GL Account:** A number assigned to a work request or work order used to categorize the work by funding source. Operating funds are assigned an index code starting with "4", capital funds (R&R and FMF) are assigned an index code starting with "5", and WSIP funds are assigned an index code starting with "7".
- 3.10 **Indirect Administrative Work (AD):** This work type is for any indirect charges due to administrative activities such as comp eTime entries, training, Maximo data entry, estimating job plans, purchasing, etc.
- 3.11 **Job Plans:** Plans that detail the tasks, estimated labor hours, materials, tools, services and JOC labor required to perform a job.
- 3.12 **JOC:** Job Order Contract
- 3.13 KPI: Key Performance Indicator
- 3.14 **MAXIMO:** A computerized maintenance work management and asset tracking system. It is used primarily as a management tool to track labor and material charges against equipment/assets, collect historical data for trending analysis, plan and schedule work, and forecast future resource requirements.
- 3.15 **NRD:** Natural Resources Division
- 3.16 **O&M:** Operations and Maintenance
- 3.17 **OPS:** This work type is for any work directly supporting operations, but not maintenance-related work.
- 3.18 **Parent Work Order:** The higher of two levels of work orders. Parent work orders are usually assigned to an overall project with one or more

child work orders under the parent work order assigned to various tasks or trades required for the project.

- 3.19 **Preventive Maintenance (PM):** This work type is for any work that is interval based. Besides traditional preventive maintenance, PMs in MAXIMO include but are not limited to compliance items, diagnostic testing, overhauls, renewals of licenses, and scheduled inspections. Preventive maintenance is by definition expected work.
- 3.20 **R&R:** Repair and Replacement.
- 3.21 **ROW:** Right-of-Way
- 3.22 SFPUC: San Francisco Public Utilities Commission
- 3.23 SOP: Standard Operating Procedure
- 3.24 **Sub Object Code:** An additional number assigned to an index code used to categorize the type of expenditure within the specified funding source.
- 3.25 SYSOPS: System Operations
- 3.26 **Unexpected Work:** Any work taken on a reactive basis that has not been pre-scheduled, i.e. any work order having a priority code of "9 Emergency", or "8- Failure". All unexpected work shall be CM type and does not require a job plan.
- 3.27 **Work Order (WO):** This document specifies a task to be completed against a specific piece of equipment/asset or facility and can be created in MAXIMO's work order tracking screen or generated as a result of a preventive maintenance action becoming due. Applicable status codes for all Water Supply and Treatment work orders are as follows:
 - Waiting for approval (WAPPR): The initial status of a work order when it is created. This is a work order awaiting review by Crew Supervisors to enter a job plan and material estimates.
 - Approval pending more info (PAPPR): This is the status of a work order where after review by maintenance planning staff, additional information is required from the initiator.
 - In Queue (QUEUE): This is the status of a work order that has been reviewed and approved by the O&M Manager.
 - Approved (APPR): This is the status of a work order that is placed on the weekly work load schedule and priority "8" & "9" WOs that have O & M Manager approval.
 - In progress (INPRG): This is the status of a work order in progress after materials have been received.
 - Waiting for material (WMATL): This status code is used when insufficient parts or material are available to continue with a work

	order that was previously "QUEUE","APPR", or "INPRG".
	• Waiting for labor (WLABR): This status code is used when insufficient crews are available to continue with a work order that was previously "QUEUE", "APPR", or "INPRG".
	• Waiting for plant conditions (WPCOND): This status code is used when operating constraints at a water treatment facility (treatment plant or field treatment facility) prevent continuing a work order that was previously "APPR" or "INPRG". This status code is to be used on work orders at water treatment facilities only.
	• Completed (COMP): Work is finished, but charges may still be outstanding against this work order.
	• Missed PM (MISSEDPM): This status code is used for preventive maintenance generated WOs that were not performed due to projects, out of service assets, or staffing issues.
	• Closed (CLOSE): The status code is used to archive a work order after all costs have been recorded against it.
	• Canceled (CAN): This status code is used to archive a work order that is no longer needed or created by mistake.
3.28	WQD: Water Quality Division
3.29	WSIP: Water System Improvement Program
3.30	WSTD: Water Supply and Treatment Division
4.0 Procedur	re:
4.1	A WO is required for all labor charges and purchases, including any and all emergency work, contracted labor and/or materials.
4.2	Work Order Initial Processing
4.2	2.1. It is the WOs requestor/initiator's responsibility to ensure the WO contains all pertinent information, including but not limited to the following.
4.2	2.2. Enter the appropriate priority code from the pull-down menu:
	4.2.2.1. Priority Code 9 – Emergency. This is any work for a situation in which an unscheduled shutdown or failure of critical equipment has occurred or in which an imminent threat to the environment or personal health and safety exists. Work is imperative and cannot be formally planned or scheduled, but it will be given all resources that can be effectively utilized. Overtime is generally approved for work in this priority code. Section or Division Manager approval is required for WOs

Procedure

using this priority code.

4.2.2.2.	<u>Priority Code 8 – Failure.</u> This is work in which an unscheduled shutdown, operation, or failure of equipment has occurred and work requires immediate action. Resources may be directed off schedule. Overtime is generally not approved for work in this priority code. O&M Section or Division Manager approval is required for WOs using this priority code.
4.2.2.3.	<u>Priority Code 6 – Regulatory PM</u> . This is mandated maintenance, inspection activities, or testing that is required by a regulatory agency. Examples of this type of work might include DOT vehicle inspections, CMV smog testing, ROW vegetation clearing, dam inspections, etc.
4.2.2.4.	<u>Priority Code 5 – High</u> . This is work that if not performed will likely result in system failure or produce safety and/or environmental concerns. This includes safety related work on critical equipment or "project" work related to a scheduled shutdown.
4.2.2.5.	Priority Code 4 – PM. This is normal preventive maintenance inspection and testing.
4.2.2.6.	<u>Priority Code 2 – Normal</u> . This is work that is non-critical or reoccurring that enhances system reliability and/or efficiency.
4.2.2.7.	<u>Priority Code 1 – Low.</u> This is work not directly related to system reliability and/or efficiency and not safety related.
4.2.3. Ent	er the appropriate Work Type code from the pull-down menu:
4.2.3.1.	CM (Corrective Maintenance)
4.2.3.2.	PM (Preventive Maintenance)
4.2.3.3.	AD (Indirect Administrative Work)
•	This work type is used for blanket WOs established for training and supervisor responsibilities.
4.2.3.4.	OPS (Operations)
•	This work type is used for blanket WOs established for general tasks to be completed at a treatment facility by SYSOPS staff only.
• 4.2.3.5.	general tasks to be completed at a treatment facility by
• 4.2.3.5. •	general tasks to be completed at a treatment facility by SYSOPS staff only.

		and determining the appropriate action.
	4.2.5.	Enter the appropriate equipment/asset number (if applicable).
	4.2.6.	Enter the location code where the work is to be performed. Identify location code from the drop-down menu.
	4.2.7.	Enter the work requestor's name in the "Reported By" window. Enter first letter of first name followed by full last name, no spaces.
	4.2.8.	Enter the work requestor's work phone number in the "Work Phone" window.
	4.2.9.	Enter the appropriate Index Code and Sub Object Code from the pull-down menu in the "GL Account" window.
	4.2.10.	Under the "Failure Class" window, indicate failure class and problem code from the applicable pull-down menus. If repairing a meter, also indicate the meter reading.
	4.2.11.	If a WO is a follow-up from a previous WO, indicate the originating WO number in the originating record window.
	4.2.12.	If a WO is a child WO, indicate the parent WO number in the Parent WO window.
4.3	ws	TD Supervisor Responsibilities
4.3	WS 4.3.1.	TD Supervisor Responsibilities
4.3		Initiate work orders.
4.3	4.3.1.	Initiate work orders. Under the "Plans" tab, enter a job plan (required), which specifies how, what, and who is needed to perform the work. Include labor estimates for each task, material and tools required, account for total travel time and a task for field safety tailgate meetings if required. Enter safety plans if applicable.
4.3	4.3.1. 4.3.2.	Initiate work orders. Under the "Plans" tab, enter a job plan (required), which specifies how, what, and who is needed to perform the work. Include labor estimates for each task, material and tools required, account for total travel time and a task for field safety tailgate meetings if required. Enter safety plans if applicable. Determine if engineering review is required prior to starting the
4.3	4.3.1. 4.3.2. 4.3.3.	 Initiate work orders. Under the "Plans" tab, enter a job plan (required), which specifies how, what, and who is needed to perform the work. Include labor estimates for each task, material and tools required, account for total travel time and a task for field safety tailgate meetings if required. Enter safety plans if applicable. Determine if engineering review is required prior to starting the work for each WO. Obtain quotes for materials and supplies and submit quotes to admin staff to create purchase requisitions.
4.3	4.3.1.4.3.2.4.3.3.4.3.4.	 Initiate work orders. Under the "Plans" tab, enter a job plan (required), which specifies how, what, and who is needed to perform the work. Include labor estimates for each task, material and tools required, account for total travel time and a task for field safety tailgate meetings if required. Enter safety plans if applicable. Determine if engineering review is required prior to starting the work for each WO. Obtain quotes for materials and supplies and submit quotes to admin staff to create purchase requisitions. Schedule daily work for individual crews on a weekly work load schedule and send list to the maintenance planning staff. When the actual work is initiated, contact maintenance planning staff to change status code of WO from "QUEUE" or "WMATL" to "APPR" or "INPRG".

4.3.		Initiate follow-up WOs for any additional work required based on feedback from an original call out WO or preventive maintenance inspection.
4.3.		Accurately report labor hours for each work order into eTime on a daily basis.
4.3.		Coordinate with maintenance planning staff if insufficient parts or material are available to continue with a WO that was previously "QUEUE", "APPR" or "INPRG". Maintenance planning staff shall then change the status code to "WMATL". Coordinate with maintenance planning staff when sufficient parts or material become available to continue with a WO that was previously "WMATL". Maintenance planning staff shall then change the status code to "INPRG".
4.3.		Coordinate with maintenance planning staff if insufficient labor is available to continue with a WO that was previously "APPR" or "INPRG". Maintenance planning staff shall then change the status code to "WLABR". Coordinate with maintenance planning staff when sufficient labor becomes available to continue with a WO that was previously "WLABR". Maintenance planning staff shall then change the status code to "APPR" or "INPRG".
4.3.		Coordinate with maintenance planning staff if operating constraints at a water treatment facility (treatment plant or field treatment facility) prevent continuing with a WO that was previously "APPR" or "INPRG". Maintenance planning staff shall then change the status code to "WPCOND". Coordinate with maintenance planning staff when operating constraints at a water treatment facility are lifted to allow a WO to continue that was previously "WPCOND". Maintenance planning staff shall then change the status code to "APPR" or "INPRG".
4.3.		At the beginning of each fiscal year, create work orders for all carry over work, create two new blanket WOs having a work type of "AD". All job planning, eTime entry, preparation, approvals, and other administrative work shall be charged against the first blanket WO. All training shall be charged against the second blanket WO. Provide maintenance planning staff with a list of all carryover work. Coordinate with planners and any work involving other crafts.
4.3.		Perform related duties as assigned by the O&M or Division Manager.
4.4	WO	Backlog Tracking Queue
4.4.	.1.	Blanket WOs
	4.4.	1.1. After initial review, all blanket WOs are immediately approved and shall have a status code of "INPRG" throughout the fiscal year.
4.4.	.2.	All other WOs

4.4.2.1. The maintenance planning staff shall provide a list of all

	"WAPPR" status WOs with job plans on Fridays to the O&M Manager for review.
4.4.2.2.	The O&M Manager will review all new WOs with job plans and modify priority codes as appropriate based on the nature of the work, current operational configuration of the Regional Water System, cost effectiveness, permitting/regulatory restrictions, and current resource loading.
4.4.2.3.	"QUEUE" WOs can then be placed in the weekly work load and scheduled at the discretion of the crew supervisor.
	 <u>Mondays</u> – Maintenance planning staff changes all new WOs in "WAPPR" status reviewed by O&M Manager to "QUEUE" status.
	• <u>Thursdays</u> – By 11:00 am, the draft of the weekly work load schedule from each supervisor is sent to the planning group to create the next week's schedule.
	This schedule is then available for query by NRD to determine what regulatory issues may affect the tasks for each WO in any watershed and/or ROW lands. At this time, NRD staff will provide input regarding any environmental mitigation and notification requirements for each WO to be included in the job plan.
	This schedule is also available for query to SYSOPS staff to provide input regarding WOs completed at each treatment facility.
	• <u>Fridays</u> – By 12 noon, the draft weekly work load schedule for the following week becomes final and no changes can be made without expressed written consent from the O&M or Division Manager.
4.4.2.4.	The draft weekly work load schedule can be changed up until it goes final at 12 noon on Fridays. After this point, the schedule is locked in and can only be changed in the event of an emergency, or by authorization of the O&M or Division Manager.
4.4.2.5.	Authors of WOs outside of WSTD shall have the ability to review priorities assigned to those work orders and the current status of their WO in MAXIMO. If any changes are required, the WO author shall consult with the O&M Manager.
4.4.2.6.	Unforeseen conditions encountered on a job will be evaluated on a case-by-case basis. Under no circumstances shall a job plan on an approved WO be modified.
	 If the additional work required is determined to be substantial, a child work order shall be created. Approvals shall be made outside of the scheduling process previously described to allow the additional work to be started immediately.

		 If the additional work required is not determined to be substantial, the additional work shall proceed under the original approved WO and documented in the Log Tab.
4.5	wo) Closeout
	4.5.1.	All WOs will be completed or cancelled at the end of every fiscal year. The exceptions are project funded WOs.
	4.5.2.	Once the tasks of a non-blanket WO have been completed, the responsible supervisor shall notify the maintenance planning staff to change the WO status to "COMP".
	4.5	.2.1. When a WO has been in "COMP" status for 90 days, the maintenance planning staff shall change the status of the WO to "CLOSE", and the WO is recorded into history.
4.6	WS	TD KPIs and Monthly Reporting
	4.6.1.	All KPIs described herein shall be compiled by the maintenance planning staff and reported to the O&M Manager on a monthly basis:
	4.6.2.	Work Type
	4.6	.2.1. As a percentage of total labor used (in dollars) for the month, indicate how much was AD, PM, CM, NW, OPS, and PROJECT.
	4.6	.2.2. As a percentage of total materials purchased (in dollars) for the month, indicate how much was AD, PM, CM, NW, OPS, and PROJECT.
	4.6	.2.3. As a percentage of total expenditures (labor + materials) for the month, indicate how much was AD, PM, CM, NW, OPS, and PROJECT.
	4.6	.2.4. As a percentage of total expenditures (labor + materials) for the fiscal year to date, indicate how much was AD, PM, CM, NW, OPS, and PROJECT.
	4.6.3.	Expected vs. Unexpected Work
	4.6	.3.1. As a percentage of total number of "INPRG" WOs for the month which is expected work.
	4.6	.3.2. As a percentage of total number of "INPRG" WOs for the month which is unexpected work.
	4.6.4.	Work Status
	4.6	.4.1. For the fiscal year to date, how many WOs are currently "WAPPR", "QUEUE", "APPR", "PAPPR", "INPRG", "WMATL", "WLABR", "WPCOND", "COMP", "CLOSE", "PROJECT", and "CAN".

		CMMS Business Practices
4.7	WC	O Authority Limitations
	4.7.1.	A WO may be generated by anyone in WSTD, NRD or WQD with access to MAXIMO.
	4.7.2.	No labor can be charged in eTime against any WO, unless its status code is "APPR" or "INPRG".
	4.7.3.	The authority to change the WO status codes is limited to the O&M manager and Division Manager.
4.8	WC	D Initial Review and Approval
	4.8.1.	Maintenance planning and all supervisory staff shall query MAXIMO on a daily basis for all WOs having a status of "WAPPR".
	4.8.2.	For all new WOs having a "WAPPR" status maintenance planning staff shall:
	4.8	2.2.1. Ensure the correct GL account code has been assigned to each WO.
	4.8	2.2.2. Ensure that an accurate and complete job plan and safety plan (if appropriate) have been entered. If not, the WO will not be reviewed by the O&M Manager or placed in a "QUEUE" status.
	4.8	2.2.3. Ensure that accurate failure classes and problem codes are entered.
	4.8	5.2.4. Determine whether the WO should be a Parent WO or a Child WO. Any additional materials for an existing WO that are not detailed in the original job plan shall be procured through a Child WO and associated to the original WO.
	4.8	3.2.5. Ensure that any WO in any watershed or ROW lands has been reviewed by NRD and any environmental mitigation and notification requirements are detailed in the job plan for each WO.
	4.8	2.2.6. Determine if engineering review is required, given the nature of the work. If any engineering review is required, it should be documented in the job plan.
	4.8.3.	After initial review, if more information is necessary, a WO status will remain in "WAPPR" status initiator provides enough information to appropriately detail the WO.
	4.8.4.	Weekly, the maintenance planning staff shall send a list of "WAPPR" WOs to the O&M Manager for review. If the O&M Manager approves a WO, the status is changed to "QUEUE".
	4.8.5.	If the O&M Manager does not approve the WO, its status is changed to "CAN" and the WO is recorded into history.

4.9	Condition Assessment
4.9.	1. Every three years, condition assessments shall be completed for all equipment at all critical facilities.
4.9.	2. Critical facilities are defined as the following (in descending order of priority):
4.9.	3. TIER 1
	Sunol Valley Water Treatment Plant
	Harry Tracy Water Treatment Plant
	Tesla Treatment Facility
	Baden Pump Station and Valve Lot
	Crystal Springs Pump Station and Valve Lot
	 San Antonio Pump Station/Sunol Valley Chloramination Facility
	 Pulgas Facility (including balancing reservoir, valve lot, dechloramination system and pump station)
	San Pedro Valve Lot
	Thomas Shaft Treatment Facility
	TIER 2
	Alameda East Portal
	Alameda West Portal
	SCVWD-SFPUC Intertie
	EBMUD-SFPUC Intertie
	Sawyer Ridge Radio Station
	Mount Allison Radio Station
	Bellevue and Pepper Valve Lot
	Newark Valve Lot
	Ravenswood Valve Lot
	Redwood City Valve Lot
	Irvington Portal
	Tissiack Valve Lot
	Crawford Valve Lot
	Mission and Palm Valve Lot
	Calaveras Boulevard Valve Lot
	El Camino and Bellevue Valve Lot
	Capuchino Valve Lot
	 Edgewood Road Valve Lot

TIER 3

- San Antonio Reservoir Adit Structure
- Calaveras Adit Structure
- Crystal Springs Adit Structure
- San Andreas Adit Structure
- Bay Division Pipeline Caisson Valve House
- Bay Division Pipeline Dumbarton Valve House
- Crystal Springs and El Cerrito Valve Lot
- Casey Quarry Valve House
- El Camino Real/Millbrae Yard Valve Lot
- Green Hills Valve Lot
- Hillsborough Valve Lot
- Mountain View/Alviso Valve Lot
- Stanford Tunnel East Portal
- Stanford Tunnel West Portal
- Upper Alameda Creek Diversion Dam and Tunnel
- Pilarcitos Adit Structure
- Mud Dam and Flow Splitting Box
- Stone Dam and associated gates
- Town of Sunol Pump Station
- Town of Sunol Tanks
- Castlewood Tank
- Pleasanton Wells
- Calaveras Hypolimnotic Oxygenation System
- San Antonio Hypolimnotic Oxygenation System

4.9.4. Pre-Assessment Planning

- 4.9.4.1. Prior to conducting any condition assessment, all records of maintenance performed since the previous assessment shall be reviewed by Maintenance Engineering staff. This includes, but is not limited to: corrective maintenance logs, preventative maintenance logs, O&M manuals, standard equipment templates, relevant installation or as-built drawings, and relevant equipment specifications or technical data sheets.
- 4.9.4.2. If equipment has an unusually high level of maintenance required or unusually poor performance (compared to manufacturer's specifications and recommendations), Maintenance Engineering staff shall determine if equipment is properly specified, if engineering processes are

	appropriately designed, and if equipment is installed properly. Maintenance Engineering staff shall then make recommendations for improvements to the Section Managers as appropriate.
4.9.5. Perfc	orming Condition Assessments
4.9.5.1.	Standard asset condition assessment forms shall be used in conducting condition assessments, based on asset category (e.g. mechanical, electrical, structural). Only assets having a value of greater than or equal to \$5,000 shall be assessed.
4.9.5.2.	The assessment team shall consist of the following:
	 Operator, plumber or stationary engineer, as appropriate Maintenance planner
	Maintenance engineer
4050	Any specialty tradesperson, as appropriate
4.9.5.3.	For each assessed asset, the assessment team shall verify that all asset details have been recorded on the standard equipment template. If any information is missing, it shall be recorded on the template.
4.9.5.4.	For each assessed asset, the asset name, location, brief description, CMMS identification code and date placed in service shall be recorded on the standard asset condition assessment form.
4.9.5.5.	Each assessed asset shall be visually inspected to observe its general condition. This observation shall be categorized using a numerical scale as indicated and described on the standard asset condition assessment form.
4.9.5.6.	During the assessment, each asset shall be operated to the maximum extent possible. The level of operation shall be recorded on the standard asset condition assessment form.
4.9.5.7.	For each assessed asset, any field observations or observed failures shall be recorded on the standard asset condition assessment form.
4.9.5.8.	For each assessed asset, any corrective action or remedy shall be identified and recorded on the standard asset condition assessment form.
4.9.5.9.	Upon completion of the asset assessment, the inspection date, assessment team, date of next inspection, time to complete the assessment and estimated useful life remaining shall be recorded on the standard asset condition assessment form. If recent digital photos of the equipment are not already included in the CMMS database, then digital photos shall be taken of the asset.

4.9.6. I	ost-Assessment Analysis
4.9.6	1. Following completion of all assets within a critical facility, Maintenance Engineering shall review all data collected during the assessment and as well as all design records and maintenance history records, then complete a condition assessment report.
4.9.6	2. This report shall include the following:
	 Based on design records and maintenance history records, determine if the engineering processes are appropriately designed and if the equipment was properly specified and installed.
	 Clearly identify poorly designed processes, improperly specified equipment, and poor equipment installations. Describe causes and provide recommendations for improvement as appropriate.
	 Recommend any process changes, maintenance actions, or equipment upgrades to help reduce unplanned outages.
	• Determine essential spare parts required to minimize unplanned outages should a failure occur.
	 Perform a life-cycle cost analyses for equipment requiring over of \$20,000 in annualized maintenance.
4.9.6	 The condition assessment report shall be submitted to the O&M Manager for review within 30 calendar of completion of all asset assessments at the critical facility.
4.10 Purc	asing
i i	I purchase requisitions shall be created in MAXIMO and linked to specific work order and subsequent index number. Sufficient formation shall be provided on the purchase requisition to dicate specifically what is to be purchased, as well as the reason r the purchase.
4.10	I.1. The requestor shall provide a quote to their supervisor with the WO, index code, sub-object, commodity code, and a description of the purchase filled out on the Purchase Request Form.
4.10	I.2. The admin staff will generate the purchase requisition in MAXIMO. The signed Purchase Request Form will then be forwarded to the O&M or SYSOPS Manager for approval in MAXIMO.
r F	nce the O&M or SYSOPS Manager approves the purchase quisition, it will be forwarded to the Division Purchaser for ocessing. No purchases shall be allowed without a "posted" urchase order.
5	pon delivery of the materials, supplies or services, the requestor hall sign and submit the original vendor invoice to the accounting aff for payment processing by the close of business on the

	following business day. All invoices must match the original purchase order or the invoice will not be processed and the vendor will not be paid.
	4.10.4. All material packing slips shall be received in MAXIMO by warehouse staff, all invoices shall be received in MAXIMO by accounting staff.
	4.10.5. All capital equipment purchases (i.e. equipment in excess of \$5,000) require completion of an Inventory Decal Form that includes the equipment serial number and installation location. Payment will not be made to the vendor unless this form is completed and submitted to the Division Purchaser. Responsibility for completing this form falls on the original requestor.
	4.10.6. Requestors shall not structure purchases to circumvent the City's \$10,000 bid limit on purchases.
Implementation	5.0 Implementation:
	5.1 It is the responsibility of each employee/supervisor to ensure compliance with this procedure.
	5.2 It is the responsibility of the O&M Section Manager to ensure that the procedure is followed and to review this procedure on an annual basis and to update as necessary. For guidance on updating this procedure, refer to the "Policies and Procedures Revision Instructions" procedure.