

CONTRACT REPORT CR-NAVFAC-EXWC-SH-FY22264 AUGUST 2022

LIFECYCLE SUSTAINMENT PLAN REPORT

FUEL TRANSFER INFRASTRUCTURE ASSESSMENT Red Hill Bulk Fuel Storage Facility, Hawaii (RHL)

Austin Brockenbrough and Associates, LLC

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August 2022

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LIFECYCLE SUSTAINMENT PLAN REPORT

FUEL TRANSFER INFRASTRUCTURE ASSESSMENT Red Hill Bulk Fuel Storage Facility, Hawaii (RHL)

Delivery Order No. N3943022F4333 A/E Contract No. N39430-20-D-2242

Submitted to:

Naval Facilities Engineering Command Engineering and Expeditionary Warfare Center 1000 23rd Avenue, Port Hueneme, CA 93043-4301

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Submitted by:



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TABLE OF CONTENTS

ACRO	DNYN	IS/ABBREVIATIONS	. vi
A.	EXEC	UTIVE SUMMARY	. 1
В.	INTR	ODUCTION	. 4
C.	LIFEC	CYCLE ANALYSIS DEFINITIONS AND DESCRIPTIONS	.7
	1.	Current Condition	.7
	2.	Maintenance/Repair Requirements with Costs	.8
	3.	Time Frame	.8
	4.	Replacement vs. Minor Repair Triggers	. 9
	5.	Service Life/Replacement Frequency	. 9
	6.	Facility Upgrades	.9
	7.	Decommissioning	LO
	8.	Potential Corrosion Failure Points	LO
D.	LIFEC	YCLE SUSTAINMENT PLAN	11
E.	APPE	NDIX	14

ACRONYMS/ABBREVIATIONS

AFFF	Preaction Aqueous Film Forming Foam Fire Suppression
API	American Petroleum Institute
bbl	Barrels
DBB	Double Block and Bleed
DoD	Department of Defense
EF	Exhaust Fan
EXWC	Engineering and Expeditionary Warfare Center
F-24	Jet Fuel
F-76	Diesel Fuel
FAMNS	Fire Alarm/Mass Notification System
FLC	Fleet Logistics Center
FOR	Fuel Oil Recovered
FS	Fire Suppression
FSD	Fire/Smoke Damper
FY	Fiscal Year
GFI	Government Furnished Information
gpm	Gallons Per Minute
hp	Horsepower
JP-5	Jet Fuel
JP-8	Jet Propulsion
ITM	Inspection, Testing and Maintenance
M/R/R	Maintenance/Repair/Replacement
NAVFAC	Naval Facilities Engineering Systems Command
PE	Pressure Exhaust Fan
PS	Pressure Supply Fan
POL	Petroleum, Oil and Lubricants
RHBFSF	Red Hill Bulk Fuel Storage Facility
RHTF	Red Hill Tank Farm
RT	AFFF Retention Tank or AFFF Retention Tank System
SF	Supply Fan
SIOH	Supervision, Inspection and Overhead

SP	Standpipe
Tunnel	Harbor Tunnel
UFC	Unified Facilities Criteria
UGPH	Underground pumphouse
Vent	Mechanical Ventilation System
WP	Wet-Pipe Fire Suppression System

A. EXECUTIVE SUMMARY

Austin Brockenbrough & Associates, LLC (Brockenbrough) was contracted under NAVFAC EXWC Contract No. N39430-20-D-2242, Delivery Order No. N3943022F4333, to develop a lifecycle sustainment plan for the tanks, pipeline systems, and support equipment including the fire suppression system at Red Hill Bulk Fuel Storage Facility (RHBFSF). A site visit was performed by personnel from Brockenbrough and Jensen Hughes from 21 March 2022 thru 1 April 2022. Brockenbrough was responsible for the fuelrelated tanks and pipeline systems, and Jensen Hughes was responsible for the fire suppression system portion of the plan. During the site visit, the team met with the local staff overseeing the operation and maintenance of the facility to gather all the available information. We also visually inspected the entire facility and observed its operation during normal conditions.

This plan provides an overview of what is required to sustain the facility operationally from a maintenance and repair perspective. The plan is laid out by fiscal year, and rough order of magnitude cost estimates are provided at the system, sub-system, major component, and equipment levels.

The systems included in this report are as follows:

- 1. F-24 The F-24 jet/aviation grade fuel system includes the associated tanks, pipeline systems, and support equipment.
- 2. F-76 The F-76 diesel grade fuel system includes the associated tanks, pipeline systems, and support equipment.
- 3. FOR The FOR fuel system contains untreated off-spec or contaminated product from the three main bulk fuel products (such as tank water bottoms) and includes Tank 311, pipeline systems, and support equipment that contain FOR.
- 4. JP-5 The JP-5 jet/aviation grade fuel system includes the associated tanks, pipeline systems, and support equipment.
- 5. AFFF Retention Tank System (RT) The AFFF Retention Tank System consists of six lift stations and associated piping located in the Red Hill Tank Farm (RHTF) plus a retention tank just outside of ADIT
- 6. Mechanical Ventilation System (Vent) The Mechanical Ventilation System contains 32 various fans located throughout the facility along with integrated various fire/smoke dampers.
- Fire Suppression (FS) The FS system consists of all elements of the water-based FS systems including fire pumps, foam pumps, standpipes, wet pipe sprinkler systems, preaction AFFF sprinkler systems, nitrogen generation systems.
- 8. Fire Alarm/Mass Notification (FAMNS) The FAMNS system includes all panels, equipment, and devices associated with the FAMNS system.

The fuel, AFFF Retention Tank, and Mechanical Ventilation systems are further broken down by subsystems or areas, as follows:

1. ADIT – This ADIT provides access as the main entrance to the UGPH.

2. ADIT - The ADIT cccess tunnel ties into the Harbor Tunnel (b) (3) (A)

The Water Pumping Station is located at the junction of the ADIT access tunnel and the Harbor Tunnel.

- 3. ADIT The ADIT access tunnel connects with the RHTF's upper access tunnel between Tanks 13 and 15.
- 4. ADIT This ADIT provides access to Elevator between the upper and lower access tunnels of the RHTF.
- 5. UGPH The UGPH which contains the primary distribution pumps and the surge tanks.
- 6. Harbor Tunnel (Tunnel) The tunnel between the UGPH and RHTF containing the bulk fuel pipelines.

Red Hill Tank Farm (RHTF) – The RHTF contains the 20 primary bulk fuel storage tanks. The fire suppression systems are further broken down by sub-system as follows:

- 1. Underground Pumphouse (UGPH) The UGPH system includes all fire pump, foam pump, and nitrogen generation equipment within the UGPH.
- Standpipe (SP) The SP system includes distribution piping serving fire suppression systems from the point of discharge from the pumphouse to fire suppression risers and fire department connections, associated fittings, valves, fire department connections, and pressure reducing valves.
- 3. Pre-action AFFF Fire Suppression (AFFF) The AFFF fire suppression systems include piping, fittings, valves, and sprinklers.
- 4. Wet-Pipe Fire Suppression System (WP) The WP include piping, fittings, valves, and sprinklers.
- 5. Fire Alarm/Mass Notification System (FAMNS) The FAMNS includes all panels, equipment, and devices associated with the FAMNS system.

The FAMNS is further broken down by sub-system as follows:

- 1. Control FAMNS control equipment including but not limited to fire alarm control panels, workstations, control modules, power supplies, transmitters, etc.
- 2. Notification FAMNS notification equipment.
- 3. Initiation FAMNS notification initiating equipment including but not limited to manual pull stations, heat detectors, monitor modules, etc.

A lifecycle analysis would typically consider at least one full cycle of the system's major component with the longest expected life span. In most cases, this would be at least 30 years and probably could extend to 50 years or more. The decision has been made to close the Red Hill Bulk Storage Facility's fuel systems within the next five years. Therefore, this report is limited to five years for all the fuel systems. The fire suppression system plan has been set to 15 years to cover until full closure of the entire site.

The lifecycle sustainment plan is based upon the current condition of the facility. As noted above, each system was visually inspected, and its condition documented during the site visit in 2022. In general, the

facility was found to be in fair to good condition considering it has been operated continuously since 1943. The facility still has some original equipment, but a large portion has been renovated and/or upgraded in various ways in the past 20 - 25 years. A complete list of every major component and its associated equipment is included in the report.

The plan determined the estimated programming amount for each fuel system over the next five fiscal years to be as follows:

- 1. F-24 = \$2,724,000
- 2. F-76 = \$4,912,000
- 3. FOR = \$1,349,000
- 4. JP-5 = \$3,366,000

The plan also determined the estimated programming amounts for the four facility support systems over the next 15 fiscal years to be as follows:

- 1. AFFF Retention Tank System = \$6,435,000
- 2. Mechanical Ventilation System = \$5,997,000
- 3. FS = \$658,101
- 4. FAMNS = \$15,506,426

Disclaimer

Report is based on information known as of the date of the report and subject to revision should new information become available.

B. INTRODUCTION

Austin Brockenbrough & Associates, LLC (Brockenbrough) was contracted under NAVFAC EXWC Contract No. N39430-20-D-2242, Delivery Order No. N3943022F4333, to develop a lifecycle sustainment plan for the tanks, pipeline systems, and support equipment including the fire suppression system at RHBFSF. A site visit was performed by personnel from Brockenbrough and Jensen Hughes from 21 March 2022 thru 1 April 2022. Brockenbrough was responsible for the fuel-related tanks and pipeline systems, and Jensen Hughes was responsible for the fire suppression system portion of the plan. During the site visit, the team met with the local staff overseeing the operation and maintenance of the facility to gather all the available information. We also visually inspected the entire facility and observed its operation during normal conditions.

This lifecycle sustainment plan for the RHBFSF considers the current condition and service life of the tanks, pipeline systems, and support equipment including the fire suppression system. The lifecycle sustainment plan is based upon a holistic understanding of the maintenance and replacement frequency times for each major component and its associated equipment. The plan provides an overview of what is required to sustain the facility operationally, specifically focusing on the use phase of a life cycle assessment to include the current condition, maintenance/repair requirements, and proposed decommissioning.

The plan outlines for each system, sub-system, and major component the current condition, how often it should undergo maintenance/repair work, complete replacement, and when portions of the system should be decommissioned. The plan also outlines what triggers full replacement versus minor repair work and identifies the highest potential corrosion failure points. The plan starts in FY22 as the baseline with subsequent fiscal year sustainment efforts charted and mapped for each system, sub-system, and major component with rough order of magnitude cost estimates for budgetary purposes.

The systems included in this analysis are as follows:

- F-24 The F-24 jet/aviation grade fuel system includes the associated tanks, pipeline systems, and support equipment. There are (b) (3) (A) bulk storage tanks at RHTF, (b) (3) (A)
 - (b) (3) (A) pumps in the UGPH, and (b) (3) (A) bbl surge tank.
- F-76 The F-76 diesel grade fuel system includes the associated tanks, pipeline systems, and support equipment. (b) (3) (A)
- FOR The FOR fuel system contains untreated off-specification or contaminated product from the three main bulk fuel products (such as tank water bottoms) and includes Tank 311, pipeline systems, and support equipment that contain FOR.
- JP-5 The JP-5 jet/aviation grade fuel system includes the associated tanks, pipeline systems, and support equipment. (b) (3) (A)

b) (3) (A)

- 5. RT The RT consists of its lift stations and associated piping located in the RHTF plus a retention tank just outside of ADIT.
- 6. Vent The Vent contains 32 various fans located throughout the facility along with integrated various fire/smoke dampers.
- FS The FS system consists of all elements of the water-based fire suppression systems including fire pumps, foam pumps, standpipes, wet pipe sprinkler systems, preaction AFFF sprinkler systems, nitrogen generation systems.
- 8. Fire Alarm/Mass Notification (FAMNS) The FAMNS includes all panels, equipment, and devices associated with the FAMNS system.

The fuel, AFFF Retention Tank, and Vent systems are further broken down by sub-systems, or areas, as follows:

(b) (3) (A)	

- 5. UGPH The UGPH which contains the primary distribution pumps and the surge tanks.
- 6. Tunnel– The tunnel between the UGPH and RHTF containing the three primary bulk fuel pipelines.
- 7. RHTF The RHTF contains the 20 primary bulk fuel storage tanks.

The FS systems are further broken down by sub-system as follows:

- 1. UGPH The UGPH system includes all fire pump, foam pump, and nitrogen generation equipment within the UGPH.
- SP The SP system includes distribution piping serving fire suppression systems from the point of discharge from the UGPH to fire suppression risers and fire department connections, associated fittings, valves, fire department connections, and pressure reducing valves.
- 3. Preaction AFFF Fire Suppression (AFFF) The AFFF fire suppression systems include piping, fittings, valves, and sprinklers.
- 4. WP The WP includes piping, fittings, valves, and sprinklers.
- 5. FAMNS The FAMNS includes all panels, equipment, and devices associated with the FAMNS system.

The fire alarm/mass notification system is further broken down by sub-system as follows:

- 1. Control FAMNS control equipment including but not limited to fire alarm control panels, workstations, control modules, power supplies, transmitters, etc.
- 2. Notification FAMNS notification equipment.
- 3. Initiation FAMNS notification initiating equipment including but not limited to manual pull stations, heat detectors, monitor modules, etc.

The fuel systems, the boundary of each sub-system, and every major component and all associated equipment are shown in Figure AA.1 - Red Hill Bulk Fuel Storage Facility - Fuel Distribution System Schematic in the Appendix. Figure AA.2 – Mechanical Ventilation System Schematic provides a similar diagram for the ventilation system. The basic information on every major component and all associated equipment for the fuel and facility support systems is provided in Table AB.1 - Equipment Data in the Appendix.

C. LIFECYCLE ANALYSIS DEFINITIONS AND DESCRIPTIONS

1. Current Condition

The current condition assessment is primarily based upon the visual observations made during the site visit of March/April 2022 and any relevant support material provided in the GFI. We looked at every major component and its associated equipment during the site visit to verify its identification, estimate its installation date, and to determine its current condition. We also held numerous meetings with the local staff overseeing the operation and maintenance of the facility to gather all the available information.

In addition, the F-76, JP-5, JP-8, and FOR pipelines were inspected in accordance with API 570 as part of the overall effort under the referenced delivery order, and the recommendations can be found in the Fuel Transfer System Inspection Report. While the assessments noted in this report are very general in nature, the inspection report is very detailed and recommends numerous "urgent" repairs even in systems noted here as being in satisfactory or good condition.

We have assigned five easily understood levels of condition:

- a. Poor The component is either barely useable or not in continuous use due to a lack of maintenance or old age and should not remain in service.
- b. Fair The component is near the end of its useful life and should be able to remain in service for five years.
- c. Satisfactory The component has been at least minimally maintained and should be able to remain in service for at least five years and potentially up to its service life with proper maintenance.
- d. Good The component has been properly maintained and not overused. It should be able to remain in service for at least 10 years and potentially up to its service life with proper maintenance.
- e. Excellent The component is relatively new, has been well maintained, and/or has not been used very much. It should be able to remain in service for its entire service life with proper maintenance.

The current condition assessments are noted in Table AB.1 - Equipment Data in the Appendix and were used to assist in the development of the lifecycle sustainment plan. It should be noted that some equipment will be upgraded, replaced, or removed by projects that have been awarded but not completed as of the condition assessment date noted above. For the purposes of this report, the indicated condition assumes the awarded but incomplete projects have been completed. Similarly, urgent facility upgrades recommended in the Fuel Transfer System Inspection Report are also assumed to have been completed.

As can be seen by the information in Table AB.1, the facility was generally found to be in fair to good condition considering it has been operated continuously since 1943. The facility still has some original equipment, but a large portion has been renovated and/or upgraded in various ways in the past 20 - 25 years. For instance, in the UGPH the valves are all original equipment while the motorized (b) (3) (A) valves were installed in the 2000s, and the pump flow control valves were renlaced in 2015.

flow control valves were replaced in 2015.

2. Maintenance/Repair Requirements with Costs

All of the included maintenance and repair requirements in this report are those that are necessary beyond what is currently performed or contracted by the local Fleet Logistics Center (FLC) maintenance personnel. Thus, the routine maintenance/repair operations that are done in-house on a day-to-day basis and their associated costs are not included here.

Similarly, the included maintenance and repair requirements outlined in this report for fire protection systems are those that are necessary beyond what is currently contracted to Kinetics for recurring inspection, testing, and maintenance (ITM). The equipment identified as requiring maintenance or repair is based on schedules outlined in UFC 3-601-02, deficiencies noted in ITM reports, and deficiencies identified during the March/April 2022 site visit, as well as equipment likely to require repair or replacement over the next 15 years. Deficiencies noted in ITM reports that have had an IDIQ submitted are also not included in the maintenance and repair requirements. The costs are based on FY22 estimates that have been escalated to the indicated FY using a 2% annual escalation according to UFC 3-701-01 DoD Facilities Pricing Guide dated 17 March 2022 along with a volatility factor to account for the current unprecedented market and labor inflation. The costs assume that all related work across all systems and subsystems in each FY will be aggregated into one contract. The costs are rough order of magnitude estimates (+/- 25%) that only include the direct cost of the construction contract. The estimates assume that there is not any design effort. The costs do include the current 2.3 area cost factor for Red Hill, Hawaii from UFC 3-701-01. They do include the SIOH expenses related to the construction phase. They do not include any indirect costs that might be associated with the work (environmental issues, pre-design inspections/studies, etc.). They do include a contingency factor. See Table AB.2 - Cost Estimate Markups, Table AB.3 Cost Estimate Example and Table AB.4 - Cost Estimate Escalation Rates in the Appendix for additional information.

3. Time Frame

Due to the anticipated closure of the fuel distribution systems at the RHBFSF, the lifecycle sustainment plan of the fuel distribution systems' major components and associated equipment is only for the next five years. Therefore, the plan for the fuel distribution systems' major components should be considered less of a prescriptive schedule of preventive maintenance activities and more of a general budgetary plan based on our best rough estimate of the maintenance and repair activities that may occur over the next five years. It is doubtful the specific

activities for specific equipment items will occur as indicated, but the indicated programming amounts should cover the reasonable and customary maintenance and repair costs for this facility with typical use.

It bears noting that at least a portion of the UGPH will be used beyond the closure of the RHBFF since the UGPH is used to push fuel in other locations of the fuel system. The continued use of the UGPH will require modification and upgrades that will occur in future projects.

While the fuel distribution systems will be closed and decommissioned within the next five years, the rest of the RHBFSF will remain and needs to be maintained. Therefore, the plan for the fire protection systems' major components is for the next 15 years and should be considered a prescriptive schedule of preventive maintenance activities and their associated costs.

The detailed maintenance/repair requirements for each individual piece of equipment are found in Table AC.1 - Detailed Lifecycle Sustainment Plan in the Appendix.

4. Replacement vs. Minor Repair Triggers

The general rule of thumb is to replace a component when the repair cost is more than 50% of the replacement cost. Unfortunately, this simple rule is too rudimentary to be very valuable past the most basic situations at very low-cost thresholds. There are numerous other key elements of the component that should be explored, including: current age, remaining useful service life, spare parts availability, improvements/upgrades available, etc. Thus, the decision of replacement or repair is always a case-by-case decision, and it cannot be made without considering numerous facts. For the purposes of this report, our recommendations include a thoughtful consideration of the pertinent factors.

5. Service Life/Replacement Frequency

We have incorporated general industry practices as well as our own experience to determine the service life and replacement frequency for the many components of the facility. Due to the robust DoD specifications used for most of the POL equipment, the service life of many components within a system will exceed the availability for spare parts or the useful life of the system. Our recommendations are based on the shortest duration of the two options. The cost to replace a component have been calculated in the same manner as noted above for the maintenance/repair requirements. In the case of replacement, the cost also includes the required decommissioning of the existing component.

6. Facility Upgrades

The recommended facility upgrades are those that appear to be necessary beyond the maintenance/repair requirements noted in the section above. These upgrades are based upon a thorough review of the existing facility that was performed under the same contract as this effort.

See the Fuel Transfer System Inspection Report for additional details including the estimated costs.

The lifecycle sustainment plan assumes only the "urgent" facility upgrades recommended in the Fuel Transfer System Inspection Report will be performed in the immediate future. Thus, the plan includes the normal maintenance/repair/replacement activities that would be necessary after completion of the proposed work.

7. Decommissioning

As noted above, the decommissioning cost related to the replacement of a component is included in the replacement cost. In some rare cases, a component may simply become obsolete and no longer necessary to the system's purpose. If that is the case, then the cost will simply be shown as a decommissioning cost only.

8. Potential Corrosion Failure Points

If a component is generally considered a corrosion risk, or if the component has had a history of corrosion at the facility, then it will be indicated as a potential corrosion failure point. This risk has also been incorporated into the maintenance/repair requirements and service life/replacement history recommendations.

D. LIFECYCLE SUSTAINMENT PLAN

Tables D.1 and D.2 on the following pages contain the Lifecycle Sustainment Plan Summary Tables broken down by system, sub-system, and major component. The first table contains the fuel systems based on a five-year window, and the second table contains the four facility support systems based on a 15-year window. For additional detail, see Table AC.1 - Detailed Lifecycle Sustainment Plan in the Appendix that provides the data down to each specific piece of equipment associated with each major component.

	Tabl	e D.1 - Lifecyc	le Sustainmer	it Plan - 5-Yea	r Summary		
System / Sub-System /	FY22	FY23	FY24	FY25	FY26	FY27	
Major Component	Program	Program	Program	Program	Program	Program	Grand Total
F-24	\$8,000	\$1,241,000	\$802,000	\$584,000	\$43,000	\$46,000	\$2,724,000
RHTF	\$0	\$0	\$152,000	\$0	\$0	\$0	\$152,000
T-0102	\$0	\$0	\$139,000	\$0	\$0	\$0	\$139,000
T-0103	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0104	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0105	\$0	\$0	\$13,000	\$0	\$0	\$0	\$13,000
T-0106	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Tunnel	\$0	\$290,000	\$82,000	\$0	\$0	\$0	\$372,000
I-0102	\$0	\$290,000	\$82,000	\$0	\$0	\$0	\$372,000
UGPH	\$8,000	\$951,000	\$568,000	\$584,000	\$43,000	\$46,000	\$2,200,000
P-0209	\$0	\$780,000	\$13,000	\$38,000	\$0	\$0	\$831,000
P-0210	\$0	\$0	\$510,000	\$0	\$43,000	\$0	\$553,000
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F-76	\$0,000 \$0	\$171,000	\$636.000	\$1 267 000	\$820.000	\$255.000	\$224,000
RHTE	\$0	\$0	\$0	\$587,000	\$0	\$0	\$587,000
T-0104	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0105	\$0	\$0	\$0	\$61,000	\$0	\$0	\$61,000
T-0106	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0107	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0108	\$0	\$0	\$0	\$239,000	\$0	\$0	\$239,000
T-0109	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0110	\$0	\$0	\$0	\$61,000	\$0	\$0	\$61,000
T-0112	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0113	\$0	\$0	\$0	\$165,000	\$0	\$0	\$165,000
<u>T-0114</u>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0115	\$0	\$0	\$0	\$61,000	\$0	\$0	\$61,000
1-0116	\$0	\$0	\$0	\$0	\$0	\$0	\$0
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P-0204	\$0	\$0	\$001,000	\$622,000	\$51,000	\$0 \$0	\$673,000
P-0205	\$0	\$0	\$0	\$0	\$665,000	\$55.000	\$720,000
T-0223	\$0	\$279.000	\$10.000	\$10,000	\$0	\$12,000	\$311.000
T-0224	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FOR	\$0	\$0	\$1,349,000	\$0	\$0	\$0	\$1,349,000
Adit	\$0	\$0	\$1,349,000	\$0	\$0	\$0	\$1,349,000
T-0311	\$0	\$0	\$1,349,000	\$0	\$0	\$0	\$1,349,000
RHTF	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0100	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Tunnel	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0311	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UGPH	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0221	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1-0222	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1-0223 T-0224	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1-0224	\$0	\$U \$1 221 000	\$0	\$U	\$U \$272.000	\$U \$67.000	\$U \$2 266 000
	\$0,000	\$1,321,000	\$95,000	\$188,000	\$373,000	\$07,000	\$5,500,000
T-0102	02	0 0	\$00,000	\$100,000	\$0	0 0	\$005,000
T-0104	0 0 (12)	0.2 0.2	\$13,000	0 0 (12)	0\$ 0\$	0.¢ 0.¢	\$13,000
T-0106	\$0	\$0	\$82.000	\$0	\$0	\$0	\$82.000
T-0107	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0108	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0109	\$0	\$0	\$0	\$87,000	\$0	\$0	\$87,000
T-0110	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T-0111	\$0	\$0	\$0	\$0	\$322,000	\$0	\$322,000
T-0112	\$0	\$0	\$0	\$0	\$0	\$0	\$0
I-0113	\$0	\$0	\$0	\$0	\$0	\$0	\$0
I-0114	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T 0116	<u>۵</u> 0	\$U	<u>۵</u> 0	\$U	\$U \$0	\$U	<u>۵</u> 0
T_0117	\$U \$0	\$U \$U	<u>ቅሀ</u> ድስ	\$U \$U	<u>۵</u> 0	\$U ¢0	<u>۵</u> 0
T-0118	ው በ	ህ በ () በ ()	φU (1) (1)	ው በ \$	ው በ2	ው በ2	ው በ \$
T-0120	00 \$0	0 0 02	0 \$0	\$101 000	0.2 (1,2)	0. 0.2	\$101 000
Tunnel	\$0	\$290.000	\$82.000	\$101,000 \$0	\$0	\$0	\$372.000
T-0107	\$0	\$290,000	\$82.000	\$0	\$0	\$0	\$372.000
UGPH	\$8,000	\$1,031,000	\$613,000	\$619,000	\$51,000	\$67,000	\$2,389,000
P-0206	\$0	\$869.000	\$36,000	\$14.000	\$0	\$55,000	\$974.000
P-0207	\$0	\$0	\$567,000	\$0	\$51,000	\$0	\$618,000
P-0208	\$0	\$0	\$0	\$605,000	\$0	\$0	\$605,000
T-0222	\$8,000	\$162,000	\$10,000	\$0	\$0	\$12,000	\$192,000
Grand Total	\$16,000	\$4,496,000	\$3,577,000	\$2,658,000	\$1,236,000	\$368,000	\$12,351,000

	h	Grand Total	\$0,430,000 \$2 350 000	\$3 359 000	\$3,076,000	\$558 000	\$561 000	\$564 000	\$568 000	\$480 000	\$345 000	\$5,997,000	\$1,344,000 \$1 244,000	\$0	0\$	\$542,000	\$542,000	\$1,316,000	\$548,000	\$0	\$768,000	\$1,299,000	\$1 496 000	\$1.496,000	\$658,101	\$568,856	\$568,856	\$21,501	\$2 890 \$2 806	\$9 918	\$2 896	\$2 896	\$54,983	\$29,763	\$5,529	\$9,845 *0.945	\$12.761	\$U	\$1 251	\$4 254	\$0	\$4,254	15,506,426	15,506,426	1 E EOE 426
	FY37	rogram Amt	D¢	ç	Ş	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	O S	0	\$0	\$0	\$0	\$0	\$0	80	0 , 0	0 9 9	0 \$	\$175,886	\$147,878	\$147,878	\$0	04	\$0	\$0	\$0	\$28,008	\$28,008 3	0\$	09	0.05	> ⊂	2 ¢) (\$0	\$0	\$8,565,589 \$	\$8,565,589 \$	*
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lan - 15-Year S	FY30	Program Amt I	000°60¢		\$59,000	\$0	\$59 000	\$0	\$0	\$0	\$0	\$360,000	\$0	\$	P	Ş	\$0	\$360,000	\$288,000	\$0	\$72,000	0	0 \$	\$0	\$6,613	\$6,613	\$6,613	\$0	000	0\$	\$0	\$0	\$0	\$0	80	08	2 9	>	200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	205	\$0	\$0	\$0	
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	System / Sub-System /	Major Component	Adi lo	T-R001	RHTF	SP-DOOR-2-1	SP-DOOR-3-1	SP-DOOR-4-1	SP-DOOR-5-1	SP-DOOR-C-1	SP-DOOR-O L-5	Vent	Adit	Adit	FF-1A	Adit	PE-1A	RHTF	EF-1A	EF-2A	PE-1A	I unnel	LC-2A	EF-6A	ES	ЬН	ΕP	AFFF	AF-1 AF-2	AF-3	AF-4	AF-5	WP	WP-1	WP-2	WP-3	SD SD	-TS			(0) (3) (4)	(p) (3) (V	EAMNS	Control	

E. APPENDIX

Figure AA.1 Red Hill Bulk Fuel Storage Facility – Fuel Distribution System Schematic



Table AB.1 Equipment Data

FY22 Current Condition	Good	Satisfactory Satisfactory	Satisfactory	Satisfactory Satisfactory	Good	Good Good	Good	Fair Good	Good	Good	Excellent	Excellent Satisfactory	Good	Good Satiefactory	Satisfactory	Poor	Good	Good	Not Applicable Not Applicable	Satisfactory	Fair	Good	Satisfactory	Satisfactory	Good	Good	Fair	Fair	Fair	Fair	Fair	Fair	Good	Not Applicable Not Applicable	Fair	Fair	Fair	Fair	Fair	Fair	Good Not Applicable	Not Applicable	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Poor	Poor	Poor Satief actory	Satisfactory	Satisfactory	Good	Fair	Fair	Fair	Fair Fair	Fair	Fair	Fair	Fair	Fair	Fair	Satisfactory	Good	Good	Satisfactory	Good	Satisfactory	Satisfactory	Good	Satisfactory	Satisfactory	Good	Satisfactory	Good	Satisfactory
FY22 Current Projects		rformed immediately													rformed immediately			New p loting and re-tuning	Removed	rformed immediately.													New ploting and re-tuning	Removed Removed	Vellinken					Alexandra de la construcción de la	New p loting and re-tuning Removed	Removed																																				rformad immadigtaby.	rformed immediately.
Notes	Dresser Coupling - New Style Dresser Coupling - New Style	Main header pipe ine size only Lifecycle assumes all urgent repairs will be pe CIR completed in 2008					Full Port	No record of a formal CIR completed Dresser Coupling - New Style	Dresser Coupling - New Style	No record of a formation completed CIR completed in 2020	New Valve / New Actuator	New Valve / Old Actuator	Dresser Coupling - New Style	Dresser Coupling - New Style	Un compreted in 2009 Main header pipe ine size only Lifecycle assumes all urgent repairs will be pe	Full Port	Full Port Eul Dort		Dresser Coupling - Original Style Dresser Providence - Original Style	Dresser coupring - Original styre Main header pipe ine size only. Lifecycle assumes all urgent repairs will be pe	Split Case Horizontal Centrifugal 0x14x20 3500 gpm @ 266 FT Head		Lug Style	Lug Style										Dresser Coupling - Original Style Dresser Coupling - Original Style	Split Case Horizontal Centrifugal 0x14x20 3500 gpm @ 266 FT Head						Dresser Coupilne - Original Style	Dresser Coupling - Original Style	Split Case Horizontal Centrifugal 0x14x20 3500 gpm @ 266 FT Head						AT VAT 1 Developer	4" x4" 1 Regulator 4" x4" 1 Regulator	4" × 4" 1 Regulator	4" x 6" 1 Regulator Draccor Provinina - Oriainal Stula	Dresser coupring - Original styre Marked as ST-0275		CIR completed in 2021 Full Port												Full Port	New Valve / Old Actuator	New VaNe / new Actuator	Full Port	F. 41 Danua	Full Port	Full Port	Guil Boot		Full Port	the state of the s	Full Port Marin horador nina ina ciza ondu - Heovirla assumas all'urgent renairs will be ne	Main header pipe line size only. Lifecycle assumes all urgent repairs will be pe
Install Date	2000	1943 1943	1998	1998	1995	1995	1995	2000	2000	1943	2020	2 0 2 0	2 000	2000	1943	1995	1 995	2015	1943	1943	1998	2000	2000	2 000	2000	2000	1943	1943	1943	1943	1943	1943	2015	1943	1998	1943	1943	1943	1943	1943	2015	1943	1998	1943	1943	1943	1943	1980	1980	1980	1980	1 980	1943	1943	2000	1943	1943	1943	1 943	1943	1943	1943	1943	1943	1943	1998	1995	2020	1998	1995	1998	1998	1995	1998	1998	1995	1998	1995	1943
Motor/Actuator Voltage			460	460	460	460					460	460				460	460				2300	460	460	460	N/N	460	460	460	460	460	460				2300	460	460	460	460	460			2300	460	460	460	460								460										460	460	460	460	460	460	460	460	460	460	460	460	460	460	
Actuator HP			1/6	3/4	1.5	1/2					1.5	1/2				12	15				300	1/4	1/12	1/20	N/A	15	1.5	1.5	15	15	15				300	15	15	15	15	15			300	15	15	15	15								3/4										1.5	3/4	15	15	3/4	15	3/4	3/4	15	3/4	3/4	15	3/4	1.5	
Motor/Actuator			45	45	51	51 30					51	30					36	}					09	60	N/A	51	43	43	43	43	43					43	43	43	43	43				43	43	43	43								43									,	43	45	51	51	45	51	45	51	51	45	45	51	45	51	
Model			R7N4-3	R7N4-3 MEK3-3	DGRA-3	DD MA-3 DG RA-3					DGRA-3	DD MA-3 R7N4-3					DGNA-3						R5L6-3	0462-3	N/A	DGRA-3	2GPG-3	2GPG-3	2GPG-3 2GPG-3	2GPG-3	2GPG-3					2GPG-3	2GPG-3	2GPG-3 2GPG-3	2GPG-3	2GPG-3			0000	2GPG-3 2GPG-3	2GPG-3	2GPG-3	2GPG-3 2GPG-3	Hydramotor	Hydramotor						DEPA-3										2GPG-3	MEK3-3	DGRA-3	DGRA-3	MEK3-3 MEK3-3	DGRA-3	MEK3-3	MEK3-3	DGRA-3	MEK3-3	MEK3-3	DGRA-3	MEK3-3	DGRA-3	
Motor/Actuator Mfr			EIM Controls	EIM Controls EIM Controls	EIM Controls	EIM Controls EIM Controls	EIM Controls				EIM / Bettis	EIM Controls EIM Controls				Rotork	EIM Controls EIM Controls				US Electric	EIM Controls	EIM Controls	EIM Controls	N/A	EIM Controls EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls				US Electric	EIM Controls	EIM Controls	EIM Controls EIM Controls	EIM Controls	EIM Controls			US Electric	EIM Controls	EIM Controls	EIM Controls	EIM Controls EIM Controls	ITT General Controls	ITT General Controls						EIM Controls										EIM Controls	EIM Controls	EIM Controls	EIM Controls	Emerson FIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	
Model																					DVS														DVS								DVS					Figure 533	Figure 533																														
Manufacturer	Dresser Dresser		AES	AES AES	General Twin Seal	General Twin Seal General Twin Seal	General Twin Seal	Dre sse r	Dre sse r		Cameron	Cameron AES	Dresser	Dresse r		General Twin Seal	General Twin Seal General Twin Seal	Cla-Val	Dresse r Dresse r	Lassald	BW/IP International - Byron Jackson	Cameron	cameron Crane Flowseal	Crane Flowseal	General Twin Seal	General Twin Seal General Twin Seal	Crane	Crane	Crane	Crane	Crane	Crane	Cla-Val	Dresser Dresser	BW/IP International - Byron Jackson	Crane	Crane	Crane Crane	Crane	Crane	Cla-Val Dress er	Dresser	BW/IP International - Byron Jackson	Crane	Crane	Crane	Crane Crane	Brooks Instruments	Brooks Instruments	Cla-Val Cla-Val	Cla-Val	Cla-Val Drase ar	Dresser Strainers Inc	Strainers Inc	General Twin Seal	Crane	Crane Walworth	Walworth	Crane	Crane	Crane	Wahworth Wahworth	Crane	Crane	Crane	AES	General Twin Seal	Cameron	Cameron AFS	General Twin Seal	AES Consent Turin Canal	General I WID Seal	General Twin Seal	AES General Tude Scal	AES	General Twin Seal	AES	General Twin Seal	
Size Class	(q) (q)	(3) (3)		-(A) -(A)										-					-							1			ĺ						ĺ															-							-					ĺ												-					
Equipment Tag No.	EI-102A EI-102B	P/F-0102 T-0102	MOV-0102E	MOV-0103C MOV-0103E	MOV-0102D	MOV-0103B MOV-0103D	MOV-0162	F-0103 EI-104A	EJ-104B	1-0105	MOV-0105A	MOV-0105B MOV-0105C	EI-106A	EI-1068 T-0106	P/F-0102	MOV-0159	MOV-0160	CV-0209	EJ-0209A	P/F-0209	P-0209	MOV-216E4	MOV-216T1	MOV-216T2	V-23217	MUV-216E2 MOV-216I4	MOV-0209A	MOV-0209B	MOV-0209C	MOV-0209F	MOV-0209G	MOV-216E3 MOV-216I2	CV-0210	EI-0210A EI-0210B	P-0210	MOV-0210A	MOV-0210B	MOV-0210E	MOV-0210F	MOV-0210G	CV-0211 EI-0211A	EI-0211B	P-0211	MOV-0211A	MOV-0211C	MOV-0211E	MOV-0211F MOV-0211G	FCV-0265 / GR68H	FCV-0275 BE-0763 / GB687	RF-0263 / GR68 C RF-0264 / GR68 D	RF-0273	RF-0274 FI-0221A	5T-0265	ST-0275	T-0221 MOV-0221A	V-0215A / GR68E	V-02158 / GR68F V-0215C / GR68G	V-0215D / GR68I	V-1626/GR38A	V-GR 8E	V-GR 8F	V-GR 8G V-GR 8I	V-GR68A	V-GR68B	MOV-216ES	MOV-0104E	MOV-0104D	MOV-0105D	MOV-0106E	MOV-0106D	MOV-0107E	MOV-0108E	MOV-0108D	MOV-0109E	MOV-0110E	MOV-0110D	MOV-0112E	MOV-0112D	P/F-0113
Equipment Type																																																																															
Component	T-0102 T-0102	T-0102 T-0102	T-0102	T-0102	T-0102	T-0102 T-0102	T-0102	T-0103 T-0104	T-0104	T-0105	T-0105	T-0105 T-0105	T-0106	T-0106 T-0106	T-0102	T-0102	T-0102 T-0102	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-0209	P-02.09	P-02.09	P-0209	P-0210	P-0210 P-0210	P-0210	P-0210	P-0210	P-02.10	P-0210	P-0210	P-0211 P-0211	P-0211	P-0211	P-0211 P-0211	P-0211	P-0211	P-0211 P-0211	T-02.21	T-0221 T-0221	T-0221	T-0221	T-0221 T-0221	T-0221	T-0221	T-0221 T-0221	T-0221	T-0221	T-0221	T-0221 T-0221	T-0221	T-0221	T-0221	T-0221	T-0221	T-0221 T-0221	T-0104	T-0104	T-0105	T-0106	T-0106	T-0107	T-0108	T-0108	T-0109	T-01 0	T-01 0	T-0112	T-0112 T-0113	T-0113
Sub-System	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	Tunnel	Tunnel	Tunnel	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	HdDH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF
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FY22 Current Condition	Evrallant	Good	Good	Good	Excellent	Faciliant	Good	Satisf actory Catief actory	Satisfactory	Good	G ood Satisf actory	Satisfactory	Good	Satisfactory	Poor	Good	Good	Not Applicable	Not Applicable Satiefactory	Satisfactory	Good	Satisfactory	Satisfactory	Poor	Good Fair	Fair	Fair	Fair	Fair	Fair	Good	Not Applicable	Not Applicable	Fair	Fair	Fair	Fair	Fair	Good	Not Applicable	Not Applicable	Fair	Fair	Fair	Fair	Fair	Good	Not Applicable Not Applicable	Fair	Fair Fair	Fair	Fair	Fair Fair	Good	Not Applicable Not Applicable	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Satisfactory	Satisfactory	Satisfactory	Good	Fair	Fair	Fair Eair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Aalt
FY22 Currant Dissincts	Current Projects													erformed immediately.			New p loting and re-tuning	Removed	Removed erformed immediately	Pump Assembly Overhaul											New n Inting and re-tuning	Removed	Removed						New p loting and re-tuning	Removed	Removed						New p loting and re-tuning	Removed						New ploting and re-tuning	Removed Removed	80 BO																												
Mortenae	New Valve / New Artuator	New Valve / Old Actuator	Full Port	Full Port	New Valve / New Actuator	No record of a formal CIR completed Hoder Construction - Assume Mirror of Tank 113	Under Construction - Assume Mirror of Tank 113	CIR completed in 2005.	Full Port	Dresser Coupling - New Style	Dresser Coupling - New Style CIR completed in 2005		Full Port	Main header pipe ine size only. Lifecycle assumes all urgent repairs will be pe	Full Port	Full Port		Dresser Coupling - Original Style	Dresser Coupling - Original Style Main header nine ine size only Tiferorcle assumes all urgent renairs will he n	Split Case Horizontal Centrifugal 14x18x27 5600 gpm @ 240 FT Head		Manufacture Date 8,00	Lug Style	Full Port								Dresser Coupling - Original Style	Dresser Coupling - Original Style	Split Case Horizontal Centrifugal 14x18x27 5600 gpm @ 240 FT Head						Dresser Coupling - Original Style	Dresser Coupling - Original Style	spirt Lase Horizontal Lentringal 14x18xz7/ 5600 gpm @ 240 FT Head						Dresser Coupling - Original Style Dresser Coupling - Original Style	Split Case Horizontal Centrifugal 14x18x27 5600 gpm @ 240 FT Head						Dresser Coupling - Original Style Dresser Coupling - Original Style	Split Case Horizontal Centrifugal 14x18x27 5600 gpm @ 240 FT Head							4 × 4 1 Regulator	4 x4 1 regulator 4" x4" 1 Regulator	4" x4" 1 Regulator	4" x 4" 1 Regulator	4" x4" 1 Regulator A" xA" 1 Beaulator	4 x4 1 Regulator	Dresser Coupling - Original Style		A.M. S.	CIIK compreted in 2020 Fuill Port	1 MILL 1 MILL 1											
Install Data	2020	1995	1995	1995	1995	2020	1995	1943	1995	2000	2000 1943	1998	1995	1943	1995	1995	2015	1943	1943	1998	2000	2020	2000	2000	1943	1943	1943	1943	1943	1943	2015	1943	1943	1998	1943	1943	1943	1943	2015	1943	1943	1943	1943	1943	1943	1943	2015	1943	1998	1943	1943	1943	1943 1943	2015	1943	1998	1943	1943	1943	1943	1980	1980	1980	1980	1980	1980	1 980	1980	1943	1943	1943	2000	1943	1943	1943	1943	1943	1943	1943	1943	1943	1943	1943	1343
Motor/Actuator	Vorage	460	460	460	460	460	460	460	460			460	460		460	460				2300	460	460	460	460	460	460	460	460	460		460			2300	460	460	460	460	2			460	460	460	460	460			2300	460	460	460	460			2300	460	460	460	460	0.04						N/A	N/A				460	2											
Aotor/Actuator	3/4	15	3.2	15	15	4/E	1.5	4/5	15			3/4	15	2	12	3.2			Ī	500	1/2	1/2	1/20	3.2	32	15	15	15	15		4			500	15	15	1.5	1.5	24			500	15	15	1.5	1.5			500	15	15	1.5	15			500	15	15	15	15	10						N/A	N/A				-											T	-
Motor/Actuator h	A5	51	51	51	51	45	51	45	51			45	51		5	51						09	60	51	43	43	43	6 3 c	43		43				6 3 6	43	43	43	2			43	43	43	43	43				43	43	43	43				43	43	43	43	ţ						N /A	N/A				36	2										+	
Motor/Actuator	MFI3.3	DGRA-3	UJRA-3	DGRA-3	DGRA-3	MFI3-3	DGRA-3	MFK3-3	DGRA-3			MEK3-3	DGRA-3		2-V0111	UIRA-3 UJRA-3						MD63-3	04C2-3	UJRA-3	2GPG-3	2GPG-3	2GPG-3	2GPG-3	2GPG-3		3K5K-3				2GPG-3	20FG-3	2GPG-3	2GPG-3				2GPG-3	2GPG-3	2GPG-3	2GPG-3	2GPG-3				2GPG-3 2GPG-3	2GPG-3	2GPG-3	2GPG-3 2GPG-3				2GPG-3	2GPG-3 2GPG-3	2GPG-3	2GPG-3	Hydramotor	Hydramotor					N/A	N/A				LIFNA.3												
Motor/Actuator Mfr	Emarson	EIM Controls	EIM Controls	EIM Controls	EIM / Bettis	Emerson	EIM Controls	EIM Controls	EIM Controls			EIM Controls	EIM Controls		Rotork EIM Controle	EIM Controls				US Electric	EIM Controls	EIM Controls FIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls			US Electric	EIM Controls	EIM Controls	EIM Controls	EIM Controls				US Electric EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls			US Electric	EIM Controls FIM Controls	EIM Controls	EIM Controls	EIM Controls EIM Controls			US Electric	EIM Controls	EIM Controls EIM Controls	EIM Controls	EIM Controls	LTT General Controls	ITT General Controls					M/A	N/A				EIM Controls												
Meedal	INIODEI																			WS														WS								5/1							V/S							ws					igure 533	igure 53.3																						
Manufacturar	Manuracturer	eral Twin Seal	eral Twin Seal	eral Twin Seal	eral Twin Seal	Her OD	eral Twin Seal		eral Twin Seal	ser	ser		eral Twin Seal		eral Twin Seal	eral Twin Seal eral Twin Seal	Val	ser	ser	(IP International - Byron Jackson D		leron		eral Twin Seal	eral I WIN Seal	le	le	9	je je	le	te Val	ser	ser	(IP International - Byron Jackson	le l	2 2	e e	16	Val	ser	ser	IP International - Byron Jackson L		le le	92 55	9	Val	sser sser	(IP International - Byron Jackson	2 2	1e	le	96	Val	SS er	(IP International - Byron Jackson C	9	92 94	2 92	9	pks Instruments	oks Instruments	Val	Val	Val	Val	Val	val	ser	iners Inc.	iners Inc	eral Twin Seal	Re and	le	9	worth	worth	le		le I	worth	worth	9	-
Pressure Size Class	Size Llass Cam	Gen	Gen	Gen	Gen	Carr	Gen	VEC	Gen	Dre	Dre	AES	Gen		Gen	Gen	Cla-	Dres	Dre	BW/		Cam		Gen	Crar	Crar	Crar	Crar	Crar	Crar	Crar Cla-	Dre	Dre	BW	Crar	Crai	Crai	Crai	Cla-	Dre	Dre	Cran	Crai	Crai	Crai	Crai	Cla-	Dre	BW/	Crai	Crar	Cran	Crai	Cla-	Dre	BW	Crai	Crai	Crai	Crai	Broc	Broo	Cla-	Cla-	Cla-	Cla-	Cla-	Cla-	Dre	Stra	Stra	Con	Crai	Crar	Crar	Wal	Wal	Crar	Crar	Crar	Wat	Wa	Crat	00
Equinment Tee No	ADV-0113F	MOV-0113D	MOV-0154	MOV-0164	TT136C	-0114 40V-0114F	MOV-0114D	F-0115 MOV-0115F	MOV-0115D	EJ-116A		MOV-0116E	MOV-0116D	2/F-0113	MOV-0151	MOV-0153	:V-0201 / GP16D	J-0201A	-J-0201B 9/6-02:01	-0201	MOV-232E4	MOV-23216 MOV-232T1	AOV-232T2	AOV-232E2	MOV-23214 MOV-0201A	MOV-0201B	AOV-0201C	MOV-0201E	MOV-0201G	MOV-232E3	VIOV-23215 V-0202 / GP26D	1-0202A	EI-02028	-0202	MOV-0202A	MOV-0202C	MOV-0202E	MOV-0202F	:V-0203 / GP36D	J-0203A	EI-0203B	2-0203 MDV-0203A	MOV-0203B	MOV-0203C	MOV-0203E	MOV-0203G	DV-0204 / GP46D	EJ-02048	2-0204	MOV-0204A	MOV-0204C	MOV-0204E	MOV-0204F MOV-0204G	CV-0205 / GP56D	EI-0205A EI-0205B	2-0205	MOV-0205A	MOV-02056 MOV-0205C	MOV-0205E	MOV-0205F		:CV-02.62	R-0253	vr-0255 8F-0255	3F-0256	R-0258	RF-0259 2E_0760	xF-0261	1-0223A	ST-0257	51-0262	-0223 MOV.0223A	r-0213A	/-02138	/-0213C	/-0213E	A-0213F	/-0216A	/-02.16C	/-0216D	/-02 16E	/-0216F	/-GR 6A	/GK bK
Excitization Tuma	Equipment Type																																																																																			
Major	T.0113	T-0113	T-0113	T-0113	T-0113	T-0114	T-0114	T-0115	T-0115	T-01 6	T-01 6 T-01 6	T-01 6	T-01 6	T-0113	T-0113	T-0113	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0202	P-02.02	P-02.02	P-0202	P-02.02	P-0202	P-0202	P-02.03	P-0203	P-02.03	P-0203	P-0203	P-02.03	P-0203	P-0203	P-0204	P-0204	P-0204	P-0204	P-02.04	P-02.04	P-0204 P-0204	P-02.05	P-0205	P-0205	P-0205	P-0205	P-0205	P-0205	T-0203	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223 T-0723	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223 T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	
Cuh-Custam	DuD-System	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	Tunnel	Tunnel	Tunnel	UGPH	NGPH	UGPH	NGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	HIGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	ПСРН	111 march
Cue tarm	F_76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76 E-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76 F-76	F-76	F-76	F-76 F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-7b	- 10 C

FY22 Current Condition	Fair Bair	Fair	Fair Fair	Satisfactory	Good	Fair Fair	Poor	Good	Good	Good	Satisfactory	Satisfactory	Satisfactory Satisfactory	Satisfactory	Good	Good Satisfactory	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Satisfactory Satisfactory	Satisfactory	Good	Fair	Fair	Good	Satisfactory	Good Satisfactory	Good	Satisf actory Good	Satisfactory	Satisfactory	Good	Good	Good	Fair 	Satisfactory Good	Fair	Good	Good	Fair	Satisfactory	Fair	Satisfactory Satisfactory	Good	Good	Good	Fair Satisfactory	Good	Good	Good	Good	Excellent
FY22 Current Projects							formed immediately				formed immediately.																																		formed immediately									formed immediately																						
Notes				Dresser Coupling - Original Style	un compreted in 2023. Full Port		Main header pipe ine size only Lifecycle assumes all urgent repairs will be perf	FUR Tank (213" dia x 16 h) outside Adit 3 C. K. completed in 2019			Main header pipe ine size only. Lifecycle assumes all urgent repairs will be perf					3-Piece	Lug / Wafer Style																											Set at 45 psi Rated 585 gpm	Main header pipe ine size only Lifecycle assumes all urgent repairs will be per-									Main header pipe ine size only Lifecycle assumes all urgent repairs will be per	Lik completed in 1996.	Full Bort	Full Port	Dresser Coupling - New Style Dresser Coupling - New Style	CIR completed in 1998		No record of a formal CIR completed.		Dresser Coupling - New Style Dresser Counciling - New Style	CIR completed in 1998		No record of a formal CIR completed			Full Port Dracear Councilion - Maxu Shria	Dresser Coupling New Style	No record of a formal CIR completed		New Valve / New Actuator Reused old E M Faceplate	New Valve / Unit Actuator Dresser Coupling - New Style	Dresser Coupling - New Style	Under Construction - Assume Mirror of Tank 113
Install Date	1943	1943	1943	1943	2000	1943	2000	2000	2000	2000	1943	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1943	1943	2000	1998	1995	1995	1995	1943	1998	1995	1995	2000	1943	1995	1943	1995	2000	1943	1998	1943	1998	1995	1995	2000	1943	1995	2020	2000	2000	2020
Motor/Actuator Voltage					460	460						460	460																															460						460	460	460	460		460	460	460			460	460	460			460	004	460	460	460		460	460	460	400		460
otor/Actuator HP					1	4 4						15	7.5																															1/2						1/6	1/2	1/2	1/6		1/6	1/2	1/2		4.	1/6	• 16	1/2			1/6	4.4	1/6	1/2	1.5		1/6	1/2	1/6	7/7		1/6
or/Actuator M RPM/S					36	43																																					;	51						45	30	30	30 45		45	90	30			30		30			45	ŝ	45	30	51		45	30	12 30	ne		12
Motor/Actuator Mo Model					NA-3	3K-3 3K-3																																						RA-3						N4-3	DMA-3 N4-3	0.MA-3	N4-3 0MA-3		N4-3	0MA-3 5MA-3	0.MA-3			N4-3 0MA-3	0.000	0MA-3			N4-3	P-1041	N4-3 643-3	DMA-3	5RA-3		N4-3	DMA-3	N6-3 MA-3	1MR-3		N6-3
Motor/Actuator Mfr					EIM Controls UF	EIM Controls 3K EIM Controls 3K						US Electric	US Electric																															EIM Controls ID						EIM Controls R7	EIM Controls DC EIM Controls R7	EIM Controls DC	EIM Controls R/ EIM Controls DE		EIM Controls R7	EIM Controls DC	EIM Controls DD			EIM Controls BIM Controls DC	100 CO	EIM Controls DE			EIM Controls R7		EIM Controls R7	EIM Controls DC	EIM Controls DC		EIM Controls R7	EIM Controls DE	Emerson R7 FIM Controls Dr	EIM controls		Fmerson R7
Model												00	8													ıraseal			uraseal																																															
Manufacturer	ane	ane	ane	eser	eneral Twin Seal	V2		eneral Twin Seal	eneral Twin Seal	eneral Twin Seal	1020111111120	egator L/	egator httheast Pine and Iron Inc					eneral Twin Seal	eneral Twin Seal	eneral Twin Seal	eneral Twin Seal	eneral Twin Seal	eneral Twin Seal	eneral Twin Seal eneral Twin Seal	eneral Twin Seal	anklin Valve D	eneral Twin Seal	meral Twin Seal	anklin Valve D	u Seal	ane	well	well	well	well	well	well	well	well	well	well	hknown	well	2		u Seal	u Sear	ane 2	u Seal u Seal	S	eneral Twin Seal	eneral Twin Seal	s eneral Twin Seal		S	eneral Twin Seal	eneral Twin Seal	esser esser		s eneral Twin Seal	5	eneral Twin Seal	esser		S		2	eneral Twin Seal	eneral Twin Seal	esser	2	eneral Twin Seal	rum meral Twin Seal	esser	esser	rim .
Size Class	(b) (3)			D	0	20		0	0	3		N	N					00	0	0	0	0	0	5 0	0	Fr	0	0	Fr	10		PC	Pro	Pro	PC	Pc	Pe	Pc	Pe	Pro	Pro		Pro	Ki		<u>Tr</u>	2		Tr	AL	<u>6</u>	G	<u>e</u>		M	00	0			0		0			AI O	5	A		0				R	D	D	Ec.
Equipment Tag No.	V-GR 6D	V-GR64B	V-GR64C V-GR64D	EJ-0224A	MOV-0224A	MOV-232ES MOV-232IS	P/F-0311	-0311A	T-031 B	1-031 C	P/F-0100	PUMP P-0100A	PUMP P-0100B	T-0100	RS1RA	KS1RB V-0100A	RS1RE	V-0102F	V-0103F V-0104F	V-0105F	V-0106F	V-0108F	V-0109F	V-0110F V-0111F	V-0112F	V-0113F	V-0114F V-0115F	V-0116F	V-0117I	V-01 20G	V-0100E	V-0102G	V-0103G	V-0104G V-0105G	V-0106G	V-0107G	V-0108G	V-0110G	V-0111G V-0112G	V-0114G	V-0115G	V-0117H	V-01 20H	MOV-0100C PSV-100	P/F-0311	V-02.21B / GT1RB	V-0222B	V-02 22C	V-0223B V-0224B	MOV-0102C	MOV-0102B MOV-0104C	MOV-0104B	MOV-0106C MOV-0106B	P/F-0107	MOV-0107C	MOV-0107B MOV-0158	MOV-0163	EJ-108A EJ-108B	T-0108	MOV-0108C MOV-0108B	T-0109	MOV-0109B	EJ-110A FI-110B	T-0110	MOV-0110C	T-0111	MOV-0111C	MOV-0111B	MOV-0111D	EI-1128	T-0112 MOV-0112C	MOV-01128	MOV-0113C	EJ-114A	EJ-1148	14011 01140
Equipment Type																																																																												
Component	T-0223 T-0223	T-0223	T-0223 T-0223	T-0224	T-0224	T-0224 T-0224	T-0311	T-0311	T-0311	T-0311	T-0100	T-0100	T-0100	T-0100	T-0100	T-0100	T-0100	T-0100	0100-L	T-0100	T-0100	T-0100	T-0 00	00 0-	T-0 00	T-0 00	T-0.00	T-0100	T-0100	T-0100	-0100	T-0100	T-0100	T-0100	T-0100	T-0100	T-0100	T-0100	1-0100 T-0100	T-0100	T-0100	T-0100	T-0100	T-0100	T-0311	T-0221	T-0221	T-0222	T-0223 T-0224	T-0102	T-0102 T-0104	T-0104	1-0106 T-0106	T-0107	1010-1	T-0107	T-0107	T-0108	T-0108	T-0108	T-0109	T-0109	T-01 0	T-01 0	T-01 0 T 01 0	T-0111	T-0111 T-0111	T-0111	T-0111 T-0112	T-0112	T-0112	T-0112	T-0113 T-0113	T-0114	T-0114	
Sub-System	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	Adit 3	Adit 3 Adit 3	Adit 3	Adit 3 Adit 3	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	Tunnel	UGPH	UGPH	UGPH	UGPH	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHT	RHTF	RHTF	RHTF	RHTF RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF RHTF	RHTF	RHTF	21.020
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FY22	Current Condition	Good	Satisfactory	Good Satisfactory	Good	Good Excellent	Excellent	Fair	Cale	Excellent	Good	Poor	Good	Good	Not Applicable	Not Applicable	Satisfactory	Good	Good	Satisfactory	Satisfactory	Good	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Good	Not Applicable	Not Applicable	Fair	Fair	Fair	Fair	Fair	Good	Not Applicable	Fair	Fair Fair	Fair	Fair	Fair	Fair	Fair Pronr	Poor	Poor	Poor	Poor	Satisfactory Satisfactory	Satisfactory	Satisfactory	Fair	Fair	Fair	Fair Fair	Fair	Fair	Fair	Fair Fair	Fair	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent Excellent	
FY22	Current Projects										amod immediately	ormea immeaiatery		lew p loting and re-tuning	emoved	emoved	ormed immediately														law n loting and ractining	temoved	emoved						lew p loting and re-tuning	emoved																																						
	Notes	Under Construction - Assume Mirror of Tank 113 Dresser Coupling - New Style				CIR completed in 2021. New Full Port Date of Manufacture - 11/20	New Full Port	No record of a formal CIR completed. Not installed	Not installed Maccord of a formal fills completed		Full Port Main booder eine ine eine onte Tifecarde serieuxes all inerante marier uill he ende	Main redoer pipe me size only turecycle assumes an urgent repairs will be pert Full Port	Full Port	Full Port	Dresser Coupling - Original Style	Dresser Coupling - Original Style	Main header pipe ine size only Lifecycle assumes all urgent repairs will be performer to a soft on the second on t	קלטור החשיר דוסו והסורוטו ביבווו ודפקטו - סו בידושה ששטט קקוור ער בטיר דו דווטוט	Newer Valve	Manuracture Date 8/00 Lue Style	Lug Style									Original Vintage Actuator		Dresser Coupling - Original Style	Dresser Coupling - Original Style	Split Case Horizontal Centrifugal 10x14x20 3500 gpm @ 280 FT Head						Dresser Coupling - Original Style R	Split Case Horizontal Centrifugal 0x14x20 3500 gpm @ 280 FT Head								4" x 4" 1 Regulator	4" x4" 1 Regulator 4" x4" 1 Regulator	4" x4" 1 Regulator	Dresser Coupling - Original Style		CIR completed in 2005										Sump pump (100 gpm @ 80' Hd) assembly in tunnel near Adit 3. Retention Tank (ADI 650-33' dia v 25' h) outside of Adit 3.	Retention Tank Skin Drain Valve	Retention Tank Fill Line Retention Tank Fill Line Canned Tee	Retention Tank Fill Line	1000 gpm / 80 ft Head Door 2 1000 nom / 80 ft Head Door 2	1000 gpm / 80 ft Head Door 2	1000 gpm / 80 ft Head Door 2	20 gpm / 50 ft Head Door 2 Door 2	Door 2	Door 2 Door 2	Wafer Style Fusible Link @ 165F Door 2	Wafer Style Fusible Link @ 165F Door z Door 2	Door 2	Door 2 Door 2	
L	Install Date	2000	1998	1995	1995	1943 2020		1943	1042	2020	1042	1995	1995	1995 2015	1943	1943	1943	2000	2000	2000	2000	2000	1943	1943	1943	1943	1943	1943	1943	1943	2015	1943	1943	1942	1943	1943	1943	1943	2015	1943	1998	1943	1943	1943	1943	1943	1943	1980	1980	1980	1980	1943	1943	1943	1943	1943	1943	1943	1943	1943	1943	1943	1943	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	
Motor/Actuator	Voltage	460	460	460	460	460	460			460	460	460	460	460			7300	460	460	460	460	460	460	460	460	460	460	460		1	460			2300	460	460	460	460			2300	N/A	460	460	460	460	460																	115/230				460	460	460	460							
Motor/Actuator	đH	1/2	1/6	1/2	1/2	1/2	3/4			1/4	3/4	1.2	1.5	1.5			400	1/4	1/4	1/12	1/20	1/4	15	15	15	15	1.5	16	n a	:	15			400	15	1.5	1.5	15			400	N/A N/A	1.5	1.5	15	15	15																	2				40	40	40	5							
Motor/Actuator	RPM/S	90	45	45	30	45	43			09	43		36	36					ç	8	60	12	43	43	43	43	43	67	ţ.	:	43			43	43	43	43	43				N/A N/A	43	43	43	43	43																	1725				1750	1750	1750	1750							
Motor/Actuator	Model	DDMA-3	R7N4-3	DD MA-3 R7N4-3	DD MA-3	MDL1-3	DEPA-3			M0G1-3	DEPA-3		DGNA-3	DG NA-3					2 10011	R5L6-3	0462-3	DCCA-3	2GP G-3	2GPG-3	2GPG-3 2GPG-3	2GPG-3	2GPG-3	3GBG.3			201/0-3			3606.3	2GPG-3	2GPG-3	2GPG-3 7GPG-3	2GPG-3				N/A	2GP G-3	2GPG-3	2GPG-3	2GPG-3	2GPG-3 Hvdramotor	Hydramotor																885185514										FLPBT157XXX120BFV41D				
Motor/Actuator	Mfr	EIM Controls	EIM Controls	EIM Controls EIM Controls	EIM Controls	EIM Controls	EIM Controls			EIM Controls	EIM Controls	Rotork	EIM Controls	EIM Controls			115 Flactric	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls FIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls	Limitorque	EIM CONTROLS			US Electric EIM Controle	EIM Controls	EIM Controls	EIM Controls	EIM Controls			US Electric	N/A N/A	EIM Controls	EIM Controls	EIM Controls	EIM Controls	EIM Controls ITT General Controls	ITT General Controls															EIM Controls	Baldor Reliance										Bi-Torq				
	Model																DVS.																	DVS							DVS						Fløure 533	Figure 533																W-130955-11 L21	761	761	716	7365	7365	7365	761	761	761	402-108	716	716	716	
	Manufacturer	seneral Twin Seal Dresser	VES	Seneral Twin Seal \ES	Seneral Twin Seal	ameron	Seneral Twin Seal			Cooper-Cameron	Seneral Twin Seal	Seneral Twin Seal	Seneral Twin Seal	Seneral Twin Seal Cla-Val	Dresser	Yresser	80//ID International - Buron Jackson	ameron		.coper-cameron Crane Flowseal	crane Flowseal	Seneral Twin Seal	crane	crane	lrane Irane	rane	crane	lrane	rane	crane	rane Na.vral	Dresser	Dresser	W/IP International - Byron Jackson	crane	trane	Crane	rane	Ja-Val	resser	8W/IP International - Byron Jackson	crane Prane	anne 2rane	crane	rane	crane	Stane Arooks Instruments	srooks Instruments	Ja-Val	Ja-Val Ja-Val	Cla-Val	Dresser Arainers Inc	trainers Inc	2000	rane trane	Valworth Architecth	trane	Srane Valworth	Natworth	unchor Grane	crane	trane trane	rane	Veil Vertical Wastewater Pump	fictaulic	Actaulic Actaulic	fictaulic	Deming	Deming	Deming	Actaulic	Actaulic	rictaulic fictaulic	ABZ Valves and Controls	Aitwaukee Arctaulic	Actaulic	fictaulic fictaulic	
Pressure	Size Class	(b) (3)																																																																												
	Equipment Tag No.	MOV-0114B EI-115A	MOV-0115C	MOV-01158 MOV-0116C	MOV-0116B	T-0117 MOV-0117F	MOV-0117E	F-0118 EJ-120A	EJ-120B	MOV-0120F	MOV-0120E	MOV-0155	MOV-0156	MOV-0157 CV-0206 / GP65D	EJ-0206A	EJ-0206B	P/F-0206 P.0206	MOV-218E4	MOV-218/4	MCV-218F1 MCV-218F1	MCV-218T2	MOV-0222A	MOV-0206A	MOV-0206B	MOV-0206C	MOV-0206F	MOV-0206G	MOV-218E3	MOV-21813	MOV-218I5 / GI45D	MUV-218IS	EJ-0207A	EJ-0207B	P-0207	MOV-0207B	MOV-0207C	MOV-0207E	MOV-0207G	CV-0208	EJ-0208B	P-0208	V-0208H	MOV-0208A	MOV-0208B	MOV-0208E	MOV-0208F	MOV-0208G	FCV-02.72	RF-0267	RF-0268 RF-0270	RF-0271	EJ-0222A ST-0769	ST-0272	T-0222	V-0212B	V-0212C	V-0214A	V-02.14B V-02.14C	V-0214D	V-GI15G V-GR25A	V-GR25B	V-GR55A V-GR55R	MOV-0222D	T-R001	V-R001	V-R002 V-R002	V-R004	5P-DOOR-2-1 5P-DOOR-2-1	5P-DODR-2-2 5P-DODR-2-3	SP-DOOR-2-4	5P-DODR-2-5							
	Equipment Type																																																																													
Major	Component	T-0114 T-0115	T-0115	T-0115 T-01 6	T-01 6	T-0117 T-0117	T-0117	T-01.8 T-0120	T-0120 T-0120	T-0120	T-0120 T-0107	7010-T	T-0107	P-0206	P-02.06	P-0206	P-02.06	P-0206	P-02.06	P-0206	P-02.06	P-0206	P-02.06	P-0206	P-0206	P-02.06	P-0206	P-0206	P-02.06	P-02.06	P-0206	P-0207	P-0207	P-0207	P-0207	P-0207	P-0207	P-0207	P-02.08	P-02.08	P-02.08	P-02.08	P-02.08	P-0208	P-0208	P-0208	P-0208 T-0222	T-0222	T-0222	T-022.2 T-022.2	T-0222	T-022.2 T-022.2	T-0222	T-0222	T-0222	T-022.2 T-022.2	T-0222	T-0222 T-0222	T-0222	T-0222 T-0222	T-0222	T-022.2 T-022.2	T-022.2	T-R001	T-R0.01	T-R001	T-R001	SP-DOOR-2-1 sp-DOOR-2-1	SP-DOOR-2-1	SP-DOOR-2-1	SP-DOOR-2-1 SP-DOOR-2-1	SP-DOOR-2-1	SP-DOOR-2-1 SP-DOOR-2-1	SP-DOOR-2-1	SP-DOUK-2-1 SP-DOOR-2-1	SP-DOOR-2-1	SP-DOOR-2-1 SP-DOOR-2-1	
ſ	Sub-System	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	Tunnel	Tunnel	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	HdDH	NGPH	UGPH	UGPH	UGPH	UGPH	HIGPH	NGPH	NGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	NGPH	NGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	Adit 3 Adit 3	Adit 3	Adit 3 Adit 3	Adit 3	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	
	System	JP-5	JP-5	JP-5	JP-5	JP-5 JP-5	JP-5	JP-5 JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	2-4L	JP-5	JP-5	JP-5	JP-5	JP-5	2-4L	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	JP-5	RT	RT	RT BT	RT	RT	RT	RT	RT	RT	RT	R	RT R	RT -	RT RT	

FY22	Current Condition	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent Excellent	Excellent	Excellent	Excellent Excellent	Excellent	Excellent Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Satisfactory Satisfactory	Satisfactory Satisfactory	Satisfactory	Satisfactory	Satisf actory Satisf actory	Satisfactory	Satisfactory Satisfactory	Satisf actory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory Satisfactory	Satisfactory	Satisfactory Satisfactory	Satisfactory	Satisf actory Satisf actory	Satisfactory	Satisfactory	
FY22	Current Projects																																																																								
	Install Date Notes	2017 1000 gpm / 80 ft Head Door 3	2017 1000gpm/80ft Head Door3	2017 1000 gpm / 80 ft Head Door 3	2017 20 gpm / 50 ft Head Door 3	2017 Door 3 2017 Door 3	2017 Door 3 2017 Door 3	2017 Wafer Style Fusible Link @ 165F Door 3 2017 Workee ends in the @ 165F Door 3	2017 Door 3	2017 Door 3 2017 Door 3	2017 Door 3	2017 Door 3 2017 1000 snm / 80 ft Head Door 4	2017 1000 gpm/80 ft Head Door 4	2017 1000 gpm / 80 ft Head Door 4 2017 1000 gpm / 80 ft Head Door 4	2017 20 gpm / 50 ft Head Door 4	2017 Door 4 2017 Door 4	2017 Door 4	2017 Door 4 2017 Michae Entition Intel Rates Proced	2017 Water Style Fusible Link @ 165F Door 4 2017 Wafer Style Fusible Link @ 165F Door 4	2017 Door 4	2017 Door 4	2017 Door 4	2017 1000 gpm / 80ft Head Door5	2017 1000 gpm / 80 ft Head Door 5	2017 1000 gpm/ 80 ft Head Door 5 2017 1000 gpm/ 80 ft Head Door 5	2017 20 gpm / 50 ft Head Door 5	2017 D001 3 2017 D00r 5	2017 Door 5 2017 Door 5	2017 Wafer Style Fusible Link @ 165 F Door 5	2017 Wafer Style Fusible Link @ 165F Door 5	2017 Door 5	2017 Door 5	2017 Door 5 2017 Door 5	2017 1000 gpm / 80 ft Head Door C	2017 1000 gpm / 80ft Head Door C 2017 1000 gpm / 80ft Head Door C	2017 1000 gpm / 80 ft Head Door C	2017 2017 Door C	2017 Door C	2017 Door C 2017 Door C	2017 Wafer Style Fusible Link @ 165F Door C	2017 Door C 2017 Door C	2017 Door C	2017 20 gpm / 50 ft Head Oil Tight Door	2017 Locken Open Oil Tight Door	2017 Oli Tight Door 2017 Locken Open Oli Tight Door	2017 Oli Tight Door	2017 OII Tight Door 2017 OII Tight Door	2017 Oil Tight Boor 2017 Oil Tight Boor	2017 Oli Tight Door 2017 Oli Tight Door	2017 Oil Tight Door 2017 Oil Tight Door	2017 Dil Tight Door	2014 2014	2014	2017 2017 More develope	2014 Located in enclosure with PE-IA & PE-IB	2014 Vane Axial Belt 2014 Vane Axial Belt	2014 Centrifugal Belt Upper Access Tunnel Backdraft Damper #HB-120	2014 Centrifugal Belt Upper Access Tunnel Backdraft Damper #HB-120 2014 Centrifugal Belt Upper Access Tunnel	2014 Centrifugal Belt Upper Access Tunnel	2014 Centrifigal Belt Upper Access runner 2014 Centrifugal Belt Upper Access Tunnel	2014 Centrifugal Belt Upper Access Tunnel	2014 Centritugal Belt Upper Access Lumei 2014 Centrifugal Belt Upper Access Tunnel	2014 Centrifugal Belt Upper Access Tunnel	201/ Upper Access Lumei 2014 Vane Axial Belt Upper Access Tunnel	2014 Vane Axial Belt Upper Access Tunnel	2017 Vane Axial Belt Upper Access Tunnel New Motor Only 2017 Vane Axial Belt Upper Access Tunnel New Motor Only	2014 Vane Axial Belt Upper Access Tunnel	2014 Vane Axial Belt Upper Access Tunnel 2014 Elevator 72 Intake Shaft	2017 Door 2	2017 Door 3 2017 Door 4	2017 Door 5	2014 Effectived mount - Sauger Januari 2014 Door C	
Motor/Actuator	Voltage	460	460	460	460							460	460	460	460								460	460	460	460								460	460	460	460						460													460	460	460	460	460	460	460	460	460	460	460	460	460				Π	
Motor/Actuator	Н	40	40	40	S							40	40	40	5 t								40	40	40	S								40	40	40	n						ŝ													10		3	2	2	2	2	2	m	e	7.5	2	2				T	
Motor/Actuator	RPM/S	1750	1750	1750	1750							1750	1750	1750	1750								1750	1750	1750	1750								1750	1750	1750	1/50						1750														1760	1760														T	
pment Uata Motor/Actuator	Model							FLPBT157XXX120BFV41D										EI DD 71 E 7VVV 1 200 D / 41 D	LLPB LLDVXXX LZUB FV41U										FLPBT157XXX120BFV41D											FLPBT157XXX120BFV41D				041 400	QTE-120												EM3611T	EM3611T															
Motor/Actuator	Mfr							Bi-Torq										DI Toro	bi-torq										Bi-Torq											Bi-Torq				Pollodice.	Paladon												Baldor	Baldor															
	Model	7365	7365	7365	101	761	761 761	402-108	716	716 716	716	7365	7365	7365	rnc /	761	761	761	901-204	716	716	716	7365	7365	7365	101	761	761	402-108		716	716	/10	7365	7365	7365	761	761	761 761	402-108	716	716	/10											FSD60-2	FSD60-2	VAB-36F17-1-A 0-X VAB-36F17-1-A 0-X	27-BISW-41-10-1	27-BISW-41-10-1 16-BISW-41-10-1	16-BISW-41-10-1	16-BISW-41-10-1	16-BISW-41-10-1	16-BISW-41-10-1	16-BISW-41- 0-1	VAB-20F14-1-A3-X	VAB-20F1 4-1-A3-X	VAB-30F14-1-A7.5-X VAB-30F14-1-A7.5-X		FSD60-2	FSD60-2	FSD60-2 FSD60-2	FSD60-2 rensed 2	FSD60-2	
	Manufacturer	eming	eming	ming		ctaulic ctaulic	ctaulic ctaulic	82 Valves and Controls	ctaulic	ctaulic ctaulic	ctaulic	mine	ming	eming	2	ctaulic etaulic	ctaulic	ctaulic 27 Mahar and Controls	ilwaukee	ctaulic	ctaulic	ctaulic	eming	aming	ming	admini (140	ctaulic	ctaulic rtaulic	82 Valves and Controls	iwaukee	ctaulic	ctaulic	ctaulic	eming	eming	eming	ctaulic	ctaulic	ctaulic ctaulic	sz Valves and Controls	ctaulic ctaulic	ctaulic	ctauric	Iwaukee	hvaukee hvaukee									iskin Atio	skin	eenheck eenheck	eenheck	eenheck eenheck	eenheck	eenheck	eenheck	eenheck	eenheck	iskin eenheck	eenheck	eenheck eenheck		skin	iskin	skin Iskin	Iskin 1-1-1	skin	
Pressure	Size Class	0) (3) (A)	De	ac		716	76	4.8	<u>/ hc </u>	76	716	oc.	De	<u>ac</u>		<u>//c</u>	Vic	// C		Pic.	Vic.	<u>Nice</u>	De	De	De		//0	700	AB	Mi	<u>//c</u>	Nice	<u>////</u>	De	Sec. 26	De	710	//0	7/6	A B	710	716		N	10									20	n2	10	10	20	6	00	<u>3</u> r	<u>Sr</u>	<u>3</u> 1	<u>20</u>	32	2		n ₂	n	20	ny		
ŀ	Equipment Tag No.	P-DOOR-3-1	P-DOOR-3-2	P-DOOR-3-4	P-DOOR-3-5							P-DOOR-4-1	P-DOOR-4-2	P-DOOR-4-3	P-DOOR-4-5								P-DOOR-5-1	P-DOOR-5-2	P-DOOR-5-4	P-DOOR-5-5								P-DOOR-C-1	P-DODR-C-2	P-DOOR-C-4	6-7-NOON-4						P-DOOR-OIL-5									F-6A F-6B	F-6C	SD-ADITS	SD-ADIT6-01	E-1A E-1B	F-1A	F- B F-7A	F-7B c 7C	F-7D	F-7E	F-7G	F-7H	S-1A	S-1B	5-2A 5-2B	S-4	5-5 5D-72-U-(1/2)	SD-DOOR-1A&B	5D-DOOR-2A&B 5D-DOOR-3A&B	5D-DOOR-4A&B	5D-T-13	
	Equipment Type																																																																								
Major	Component Sp DOOP.3.4	SP-DOOR-3-1	SP-DOOR-3-1	SP-DOOR-3-1	SP-DOOR-3-1	SP-DUOR-3-1 SP-DOOR-3-1	SP-DOOR-3-1 SP-DOOR-3-1	SP-DOOR-3-1 SP-DOOR-3-1	SP-DOOR-3-1	SP-DOOR-3-1 SP-DOOR-3-1	SP-DOOR-3-1	SP-DOOR-3-1 SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1 SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1 SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-4-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1 SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-5-1	SP-DOOR-C-1	SP-DOOR-C-1	SP-DOOR-C-1	SP-DOOR-C-1	SP-DOOR-C-1	SP-DOOR-C-1 SP-DOOR-C-1	SP-DOOR-C-1	SP-DOOR-C-1 SP-DOOR-C-1	SP-DOOR-C-1	SP-DOOR-OIL-5	SP-DOOR-OIL-5	SP-DOOR-OIL-5 SP-DOOR-OIL-5	SP-DOOR-OIL-5	SP-DOOR-OIL-5 SP-DOOR-OIL-5	SP-DOOR-OIL-5	SP-DOOR-OIL-5	SP-DOOR-OIL-5	SP-DOOR-OIL-5	EF-6A EF-6A	EF-6A FF-6A	EF-1A DE-1A	PE-1A	PE-1A PE-1A	EF-1A	EF-1A EF-1A	EF-1A cc.1A	EF-1A	EF-1A	EF-1A EF-1A	EF-1A cr 1A	EF-1A PE-1A	PE-1A	PE-1A PE-1A	PE-1A	PE-1A EF-1A	EF-2A	EF-2A EF-2A	EF-2A	EF-2A	
	Sub-System	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF Purc	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF BHTF	RHTF	RHTF BHTF	RHTF	Adit 1 Adit 1	Adit 1 Adit 1	Adit 5	Adit 6	Adit 6 Adit 6	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	
	Syster,	8	8	2	2	z E	2	8	8	E E	5	R	Ł	2	8	18	5	8	2 22	2	2	12	2 22	8	2	8	2	2	R	5	8	8	2 2	5	2 2	뉟	2	R I	2	2	2 2	12	2 2	8	R	墟	z E	R R	2	8	R	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent Vont	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	

FY22	ant Condition	at is factory	atisfactory	at is factory	atisfactory	at is a ctory	atisfactory	Poor	etisfactory	atisfactory	stisfactory	mista ctory	stisfactory	stisfactory	atisfactory	at is factory	atisfactory
-	vojects Curre	S		Ś	~	~	No.		N.	-	Ś	S	~	~	~	~	N.
111	Current P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1															
					1.000	other Only	otor Only		otor Only	otor Only							
l	Notes					per #HB-120 New N	per #HB-120 New N	per #18-120	per #HB-120 New N	per #HB-120 New N				*	or #H8-120	ker #HB-120	moon
l	Contraction of the local division of the loc	Exhaust Shaft - Uppe	Exhaust Shaft - Lowe	A to Adit 6 - Upper	ft to Adit 6- Lower	Belt Backdraft Dam			Belt	inline Belt Basemer	Belt Backdraft Damp	Belt Backdraft Damp	Inline Belt Storage				
ŀ	te	Elevator 73 (Elevator 731	Exhaust Sha	Exhaust Sha	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal			Centrifugal	Centrifugal/	Varie Add 1	Vare Add 1	Centrifugal/
tor	Install Do	2014	2014	2014	2014	2017	2017	2014	2017	2017	2017	2017	2014	2014	2014	2014	2014
Motor/Actua	Votage		0.1			460	460		460	460			460		460	460	48
Motor/Actuator	HP					20	20		15	15			5		15	15	15
Motor/Actuator	RPM/S					1765	1765		1765	1765			1755		1765	1765	1760
Motor/Actuator	Model					4T	AT		3T	37			ITGN6526AAL		T3ENS25AT	ET3ERS254T	034 MC
ator						BM23	BM23		BM230	BM23.			E 184		01518	01518	P2553
Motor/Ach	ME					Baldor	Baldor		Baldor	Beldor			Marathon		Weg	Weg	Relation
	Model	5060-2	5060-2	5060-2	5060-2	4-85W-41-X- 0-1	4-85W-41-X- 0-1		4-85W-41-X- 0-1	4-85W-41-X- 0-1	5060-2	5060-2	7-85W-41-10-1	X3356C	9-8 DW-41-3-1	9-8 DW-41-3-1	16038
ſ	-		-			4	-		4			-		N.			
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arrise.	Class	Ruskin	Buskin	Buskin	Ruskin	Greenh	Greenh.		Greenh	Greenh	Ruskin	Ruskin	Greent	Penn V	Greent	Greenh	Pern V
F	Size	10/14															
F	Equipment Tag No.	0.72-0-00	0.724-01	D-M6-U-01	D-M6-L-01	-2A	-28		VI	48	0.6-2	DB4	*	ę	-SA	-58	1
F		182	182	8		r th	115			1 H		182	15	1		13h	
	Equipment Type																
Major	Comp onent	PE-1A	PE-1A	PE-1A	PE-1A	EF-2A	EF.2A	EF-2A	EF-2A	LF-2A	EF-2A	EF-2A	EF-6A	EF-6A	EF-6A	EFGA	EFGA
F	Sub-System	RHTF	RHTF	RHTF	RHTF	Turned	Turnd	Turnel	Tunnel	Turnd	Turnel	Tunnd	Habn	Hebn	NGPH	HIGHH	HdDh
ŀ	vstem	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent



Table AB.2 - Cost E	stimate Markups
ltem	Markup Percentage
Design Phase	25.00%
Prime Contractor	
Overhead	37.00%
Project Office OH	15.00%
Home Office OH	5.00%
Profit	10.00%
Bond	1.00%
Insurance	1.00%
Excise Tax	5.00%
ROM Estimate	155.00%
Area Cost Factor	130.00%
ROM Accuracy	25.00%
Owner Expenses	13.00%
DoD SIOH	8.00%
DoD Contingency	5.00%

Table AB.2 Cost Estimate Markups

Table AB.3 - Cost Estimate	Example
\$1M Project Example	Amount
Design Phase	\$250,000
Contract Award	\$3,493,500
Construction Labor/Material	\$1,000,000
Prime Contractor Overhead	\$370,000
ROM Estimate Adjustment	\$2,123,500
Owner SIOH/Contigency	\$486,655
Programming Amount	\$4,230,155
Overall Markup (rounded)	4.3

Table AB.3 Cost Estimate Example



		т	able AB.4 - Cost	t Estimate Escalation Rates
FY	Annual Escalation	Volatility Factor	Accumulated Escalation	Notes
FY2022			100.00%	Base Year
FY2023	2.00%	10.00%	112.00%	Volatility factor added for current market/labor inflation.
FY2024	2.00%	10.00%	125.44%	Volatility factor added for current market/labor inflation.
FY2025	2.00%	5.00%	134.22%	Volatility factor added for current market/labor inflation.
FY2026	2.00%	5.00%	143.62%	Volatility factor added for current market/labor inflation.
FY2027	2.00%	5.00%	153.67%	Volatility factor added for current market/labor inflation.
FY2028	2.00%		156.74%	
FY2029	2.00%		159.88%	
FY2030	2.00%		163.08%	
FY2031	2.00%		166.34%	
FY2032	2.00%		169.66%	
FY2033	2.00%		173.06%	
FY2034	2.00%		176.52%	
FY2035	2.00%		180.05%	
FY2036	2.00%		183.65%	
FY2037	2.00%		187.32%	

Table AB.4 Cost Estimate Escalation Rates

Table AC.1 Detailed Lifecycle Sustainment Plan

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FY 28 Program Amt																																																																			
FY28 M/R/R Activity																																																																			
FY27 Program Amt																																						\$46 000																	T											Π	
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FY26 M/R/R Activity F																															al ve/Actuator Kebuild																																				
FY25 Program Amt																		000 000	NO OF												>					\$546 000																				¢£1 000	000 195				\$239 000		\$61 000				
FY25 M/R/R Activity																		ak ta (A attraction D attracted																		ump Assembly Overnaul																				off Corole Danlacement Vit	ort Goods Keplacement Kit				alve/Actuator Rebuild		oft Goods Replacement Kit				
FY 24 Program Amt			\$57000	\$82 000					\$13 000				\$82 000				\$13 000		-										\$510.000							ă.																		\$45 000			8				Ň		Sc			T	
FY24 M/R/R Activity			ft Goods Replacement Kit	lve/Actuator Rebuild					ft Goods Replacement Kit				lve/Actuator Rebuild				ft Goods Replacement Kit												m D Assembly Overhaul																									lve/Actuator Rebuild													
FY23 rogram Amt			Sor	Va					So			\$290 000	Va			A 15 C 000	24:20 UUU SQ			\$290 DDD	000	\$34 000							Pu											\$27 000	\$27 000	\$27 000	\$27 000							\$9 000		T		Va												H	
FY23 M/R/R Activity												alve Replacement								alve Renlacement		alve/Actuator Rebu Id																		alve Rebuild & Re-Tune	alve Rebuild & Re-Tune alve Rebuild & Re-Tune	alve Rebuild & Re-Tune	alve Rebuild & Re-Tune alve Rebuild & Re-Tune							alve Rebuild																	
FY 22 Program Amt																						2																									\$8 0 0 0																			Π	
FY22 M/R/R Activity																																															/ahe Rebu Id																				
Equipment Tag No. 1J-102A	:J-102B >/F-0102	F-0102 MOV-0102E	MOV-0103C MOV-0103E	MOV-0102D MOV-0103B	MOV-0103D MOV-0162	-0103 5J-104A	EJ-104B	-0105 40V-0105A	MOV-0105B	1-106A	-0106	/F-0102 MOV-0159	MOV-0160	V-0209	LI-02098	/F-0209	-0209 AOV-216E4	40V-216I3	40V-216T2	/-23217 40V-216E2	MOV-21614	MOV-0209A MDV-0209B	MOV-0209C	MOV-0209E MOV-0209F	MOV-0209G	MOV-216E3	VIUV-21612	EJ-0210A	-02108	MOV-0210A	MOV-0210B MOV-0210C	MOV-0210E	MOV-0210G	CV-0211	1-02118	-0211A MOV-0211A	MOV-0211B	MOV-0211E	MOV-0211F MOV-0211G	:CV-02.65 / GR68H	:CV-02.75 8E-0263 / GR68C	RF-0264 / GR68D	RF-0273 RF-0274	:J-0221A	51-0265 51-0275	F-0221	-0215A / GR68E	/-02158 / GR68F /-0215C / GR68G	/-0215D / GR68I	/1632/GR38B	/-GR 8F	/-GR 8G /-GR 8I	/-GR68A	MOV-216ES	MOV-216IS MOV-0104E	MOV-0104D	MOV-0105E	MOV-0106E	AOV-0107E	MOV-0107D MOV-0108E	MOV-0108D	MOV-0109E MOV-0109D	MOV-0110E	MOV-0112E	MOV-0112D •/F-0113	F0113	
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n Sub-System RHTF	RHTF RHTF	RHTF	RHTF RHTF	RHTF RHTF	RHTF RHTF	RHTF RHTF	RHTF RHTF	RHTF RHTF	RHTF	RHTF	RHTF	Tunnel	Tunnel	NGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	NGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	NGPH	NGPH	UGPH	NGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	HdDh	NGPH	UGPH	UGPH	NGPH	UGPH RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	
System F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24 F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24 F-24	F-24	F-24 F-76	F-76	F-76	F-76 F-76	F-76	F-76 F-76	F-76	F-76 F-76	F-76	F-76	F-76 F-76	F-76	

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Equipment Tag	No.	EJ-102B	F-0102	MOV-0102E MOV-0103C	MOV-0103E	MOV-0102D	0010-000	MOV-0162	EJ-104A	EJ-104B F-0104	T-0105	MUV-01058 MOV-01058	MOV-0105C	EJ-106A	T-0106	P/F-0102	MOV-0160	MOV-0161	CV-0209	EJ-02098	P/F-0209	P-0209 MOV-216E4	MOV-21613	MOV-216T1	V-23.217	MOV-216E2	MOV-21614	MOV-0209B	MOV-0209C	MOV-0209E MOV-0209F	MOV-0209G	MOV-216E3	MOV-21612 2V-0210	EJ-0210A	EJ-0210B	MOV-0210A	MOV-0210B	MOV-0210E	MOV-0210F	7V-0211	EJ-0211A	EJ-02118	MOV-0211A	MOV-0211B MOV-0211C	MOV-0211E	MOV-0211F	FCV-02.65 / GR68H	FCV-02.75	RF-0264 / GR68D	RF-0273 3E-0274	5J-0221A	ST-0265 3T-0275	T-0221	MOV-0221A	V-02158 / GR68F	V-0215C / GR68G	V-1626 / GR38A	V-1632 / GR38B V-GR 8E	V-GR 8F	V-GR 8G V-GR 8I	V-GR68A	V-GR68B MOV-216ES	MOV-216IS	MOV-0104E VMV-0104D	MOV-0105D	MOV-0105E	MOV-0106D	MOV-0107E	MOV-0107D MOV-0108E	MOV-0108D	MOV-0109E	MOV-0110E	MOV-0110D	MOV-0112E MOV-0112D	P/F-0113	-0113
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	Sub-System RHTF	RHTF	RHTF	RHTF RHTF	RHTF	RHTF DUTE	RHTF	RHTF	RHTF	RHTF	RHTF	RHIF	RHTF	RHTF	RHTF	Tunnel	Tunnel	Tunnel	UGPH	UGPH	UGPH	UGPH	UGPH	HGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF BUTE	RHTF	RHTF	KHIr
	System F-24	F-24	F-24	F-24 F-24	F-24	F-24 E-24	F-24 F-24	F-24	F-24 F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 6-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 E-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-76 F-76	F-76	F-76 c.76	F-76	F-76	F-76 F-76	F-76	F-76 F-76	F-76	F-76 c.75	F-76	F-76	n1

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Table AC.1 - De FY36	M/K/R ACTWRY																																																																														
Equipment Tag	NO. EJ-102A	EJ-102B	P/F-0102 T-0102	MOV-0102E	MOV-0103C	MOV-0102D	MOV-0103B	MOV-0103D MOV-0162	T-0103	EJ-104A	T-0104	T-0105	MOV-0105B	MOV-0105C	EJ-106A	T-0106	P/F-0102	MOV-0159 MOV-0160	MOV-0161	CV-0209	EJ-0209A	P/F-0209	P-0209	MOV-21613	MOV-216T1	MOV-216T2	MOV-216E2	MOV-21614	MOV-0209A	MOV-02090	MOV-0209E	MOV-0209F	MOV-0209G	MOV-21612	CV-0210	EJ-0210A	EJ-0210B	MOV-0210A	MOV-0210B MOV-0210C	MOV-0210E	MOV-0210F	CV-0211	EJ-0211A	EJ-02118 P-0211	MOV-0211A	MOV-0211B MOV-0211C	MOV-0211E	MOV-0211F	FCV-02.65 / GR68H	FCV-02.75	RF-0263 / GR68C RF-0264 / GR68D	RF-0273	RF-0274	EJ-0221A ST-0265	ST-0275	T-0221 MOV-0221A	V-0215A / GR68E	V-0215B / GR68F V-0215C / GR68G	V-0215D / GR681	V-1632 / GR38B	V-GR 8E	V-GR 8F V-GR 8G	V-GR 8I	V-GR68A	MOV-216ES	MOV-216IS	MOV-0104D	MOV-0105D	MOV-0106E	MOV-0106D	MOV-0107E MOV-0107D	MOV-0108E	MOV-0108D	MOV-0109D	MOV-0110E	MOV-0112E	MOV-0112D	P/F-0113	-0113
	Equipment Type																																																																														
Major	Component T-0102	T-0102	T-0102	T-0102	T-0102	T-0102	T-0102	T-0102 T-0102	T-0103	T-0104 T-0104	T-0104	T-0105	T-0105	T-0105	T-0106 T-0106	T-0106	T-0102	T-0102 T-0102	T-0102	P-02.09	P-02.09	P-02.09	P-02.09	P-02.09	P-0209	P-02.09 P-07.09	P-02.09	P-02.09	P-02 0	P-02 0	P-02 0	P-02 0	P-02 0 P-02 0	P-02 0	P-02 0	P-02.1	P-0211	P-0211 P-0211	P-0211	P-0211 P-0211	P-0211	P-0211	r-0211 T-0221	T-0221	T-0221 T-0221	T-0221	T-0221	T-0221 T-0221	T-0221	T-0221 T-0221	T-0221	T-0221 T-0221	T-0221	T-0221	T-0221	T-0221 T-0221	T-0221	T-0221	T-0221	T-0221	T-0104	T-0105	C010-1	T-0106	T-0107	T-0108	T-0108	T-0109	T-01 0 T-01 0	T-0112	T-0112	T-0113	CT10-1						
	SHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF BHTF	RHTF	Tunnel	Tunnel	Tunnel	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	Hdbn	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHIr
	5ystem F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24 E-24	F-24	F-24	F-24 F-24	F-24	F-24 E-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-24	F-24	F-24 E-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 E-24	F-24	F-24	F-24	F-24	F-24 F-24	F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24 F-24	F-24	F-24	F-24	F-24	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F=/0

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Equipment Tag No.	ADV-0113E ADV-0113D	ADV-0154 ADV-0164	T136C	ADV-0114E	-0115	ADV-0115E	J-116A J-116B	-0116 10V-0116E	ADV-0116D /F-0113	AOV-0151 AOV-0152	AOV-0153	1-0201A	J-0201B /F-0201	-0201	ADV-23216	AOV-232T1 AOV-232T2	ADV-232E2	ADV-0201A	AOV-0201B AOV-0201C	ADV-0201E	ADV-0201G	AOV-232E3 AOV-232I5	V-0202 / GP26D	J-0202A J-0202B	-0202	ADV-02028 ADV-02028	ADV-0202C	ADV-0202F	AOV-0202G V-0703 / GB36D	J-0203A	-0203B -0203	ADV-0203A	ADV-0203C	AOV-0203E AOV-0203F	ADV-0203G V-0204 / GP46D	1-0204A	-0204B -0204	ADV-0204A ADV-0204B	ADV-0204C	ADV-0204F	ADV-0204G V-0205 / GP56D	1-0205A	-0205	AOV-0205A AOV-0205B	ADV-0205C ADV-0205E	AOV-0205F	CV-0257	F-0253	F-0255	F-0256 F-0258	F-0259 F-0260	F-0261 J-0223A	T-0257	-0223	-0213A -0213A	-02.136 -02.13C	-0213D -0213E	-02 13F -02 16A	-02 16B	-02.16D	-02 16F -02 16F	-GR 6A -GR 6B	-GR 6C
Equipment Type																																																															
Major Component	T-0113 T-0113	T-0113 T-0113	T-0113 T-0114	T-0114 T-0114	T-0115	-0115 T-0115	T-01 6 T-01 6	T-01 6 T-01 6	T-01 6 T-0113	T-0113 T-0113	T-0113	P-02.01	P-0201 P-0201	P-02.01	P-0201	P-0201	P-0201	P-0201	P-0201 P-0201	P-0201 P-0201	P-0201	P-0201 P-0201	P-02.02	P-0202 P-0202	P-02.02	P-0202 P-0202	P-02.02	P-02.02	P-02.02	P-0203	P-0203 P-0203	P-02.03	P-02.03	P-0203 P-0203	P-02.03	P-02.04	P-02.04 P-02.04	P-02.04 P-02.04	P-02.04	P-02.04	P-02.04 P-02.05	P-0205	P-0205	P-0205 P-0205	P-0205 P-0205	P-0205	T-0223	T-0223	T-0223	T-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223	T-0223 T-0223	T-0223	T-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223	T-0223 T-0223	T-0223 T-0223	T-0223
tem Sub-System	-76 RHTF -76 RHTF	-76 RHTF -76 RHTF	-76 RHTF -76 RHTF		-76 RHTF	-/b RHIF	-76 RHTF -76 RHTF	-76 RHTF -76 RHTF	-76 RHTF -76 Tunnel	-76 Tunnel -76 Tunnel	-76 Tunnel	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH	76 UGPH	76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH 76 LIGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH 26 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH 26 LICEH	76 UGPH	76 UGPH 76 UGPH	100H	PIGPH	76 UGPH 76 UGPH	76 UGPH 76 UGPH	76 UGPH 76 LICEH	76 UGPH	76 UGPH	76 UGPH	76 UGPH	76 UGPH 76 UGPH	76 UGPH 76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH	-76 UGPH	-76 UGPH	-76 UGPH -76 UGPH	76 UGPH 76 UGPH	76 UGPH	76 UGPH 76 UGPH	-76 UGPH -76 UGPH	76 UGPH

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Equipment Tag No.	0V-0113E 0V-0113D	OV-0154 OV-0164	T136C -0114	OV-0114E	-0115	0V-0115E	J-1168	-0116 OV-0116E	OV-0116D /F-0113	0V-0151	0V-0153	V-0201 / GP16D J-0201A	J-0201B /E.0201	-0201	OV-232E4 OV-232I6	0V-232T1	OV-232T2 OV-232E2	OV-23214	0V-02018 0V-02018	OV-0201C	0V-0201F	OV-0201G OV-232E3	0V-232I5	V-0202/ GP260	J-0202B -0202	OV-0202A	OV-0202B OV-0202C	OV-0202E	0V-0202G	V-0203 / GP36D J-0203A	J-0203B -0203	OV-0203A	0V-02030	OV-0203E OV-0203F	0V-0203G	V-02044 / GP46U	J-0204B -0204	OV-0204A	0V-02046	OV-0204E OV-0204F	0V-0204G	U-0205A GP56D	J-0205B -0205	OV-0205A	0V-02056	OV-0205E OV-0205F	0V-0205G	CV-0262	F-0254	F-0255 F-0256	F-0258 F-0259	F-0260 F-0261	1-0223A	T-0257 T-0262	-0223 OV-0223A	-0213A -0213B	-02.13C	-0213D -0213E	-0213F -0216A	-0216B -0216C	-0216D -0216E	-02.16F	-GR 6B	-GR 6C
Equipment Type																																																																
Major Component	T-0113 T-0113	T-0113 T-0113	T-0113 T-0114	T-0114 T-0114	T-0115	T-0115	1-01 6 T-01 6	T-01 6 T-01 6	T-01 6 T-0113	T-0113 T-0113	T-0113	P-0201 P-0201	P-0201 P-0201	P-0201	P-0201 P-0201	P-02.01	P-0201 P-0201	P-0201	P-0201 P-0201	P-0201 P-0201	P-0201	P-0201 P-0201	P-0201	P-0202 P-0202	P-0202 P-0202	P-0202	P-0202 P-0202	P-0202	P-0202	P-0203 P-0203	P-0203 P-0203	P-0203	P-02.03	P-0203 P-0203	P-02.03	P-0204	P-0204 P-0204	P-0204	P-0204	P-0204 P-0204	P-0204	P-0205	P-02.05 P-02.05	P-02.05	P-0205	P-0205 P-0205	P-0205 T-0223	T-0223	1-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223 T-0723	T-0223	T-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223	1-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223 T-0223	T-0223	T-0223	T-0223
ystem Sub-System	F-76 RHTF F-76 RHTF	F-76 RHTF F-76 RHTF	F-76 RHTF F-76 RHTF	F-76 RHTF	F-76 RHTF	F-76 RHTF	F-76 RHTF	F-76 RHTF F-76 RHTF	F-76 RHTF F-76 Tunnel	F-76 Tunnel F-76 Tunnel	F-76 Tunnel	F-76 UGPH	F-76 UGPH F-76 UGPH	F-76 UGPH	F-76 UGPH F-76 UGPH	-76 UGPH	-:76 UGPH	-:76 UGPH	/6 UGPH	-:76 UGPH	-76 UGPH	-:76 UGPH	76 UGPH	76 UGPH	76 UGPH	-76 UGPH	-:76 UGPH	F-76 UGPH F-76 UGPH	-76 UGPH	76 UGPH	F-76 UGPH F-76 UGPH	H-76 UGPH	-76 UGPH	-:76 UGPH	76 UGPH	76 UGPH	F-76 UGPH F-76 UGPH	F-76 UGPH	-76 UGPH	F-76 UGPH F-76 UGPH	76 UGPH	/6 UGPH	-76 UGPH	HdDn 92	76 UGPH	-:76 UGPH	F-76 UGPH F-76 UGPH	F-76 UGPH	F-76 UGPH	F-76 UGPH	F-76 UGPH F-76 UGPH	F-76 UGPH F-76 UGPH		76 UGPH	F-76 UGPH F-76 UGPH	76 UGPH	F-76 UGPH	F-76 UGPH	F-76 UGPH F-76 UGPH	76 UGPH	F-76 UGPH F-76 UGPH	F-76 UGPH	F-76 UGPH	F-76 UGPH

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Major Component	T-0113 T-0113	T-0113	T-0113	T-0114	T-0114	T-0114 T-0115	T-0115	T-0115	-01 6 T-01 6	T-01 6	T-01 6 T-01 6	T-0113	T-0113	T-0113	P-0201	P-0201	P-02.01	P-0201	P-0201	P-0201	P-0201	P-0201	P-02.01	P-0201	P-0201	P-0201	P-0201	P-0201	P-0201	P-0202	P-02.02	P-02.02	P-0202	P-0202	P-02.02	P-0202	P-02.03	P-02.03	P-0203	P-02.03	P-0203	P-0203	P-02.03	P-02.04	P-02.04	P-02.04	P-02.04	P-02.04	P-0204	P-02.04	P-02.05	P-02.05	P-0205	P-02.05	P-02.05	P-02.05	P-02.05	T-0203	T-0223	T-0223	T-0223	T-0223 T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223	T-0223 T-0223	T-0223	T-0223 T-0223	T-0223	T-0223	T-0223	T-0223	
Sub-System	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF	RHTF BHTF	Tunnel	Tunnel	Tunnel	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	NGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	UGPH	
System	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 E-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76 E-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76 E 76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76	F-76 F-76	F-76	F-76	F-76 F-76	F-76	F-76 F-76	F-76	F-76	F-76 c-76	F-76	

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		y Pro																	
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	Y34	am Amt					Motor	Motor						\$76 000	\$152 000			\$152 000	
	6	Progra																	
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	FY 33	Program Amt												V	M			M	
	FY33	M/R/R Activity																	
	FY32	ram Amt																	
	_	Prog																	
	FY32	M/R/R Activity																	
t Plan	FY31	Program Amt																	
iled Lifecycle Sustainmen	FY31	A/R/R Activity																	
Table AC.1 - Deta	0	1 Amt																	
	FY3	Program																	
	FY30	M/R/R Activity																	
	FY 29	Program Amt																	
	FY29	M/R/R Activity																	
	Equipment Tag	No.	FSD-72-U-01	FSD-72-L-01	FSD-A6-U-01	FSD-A6-L-01	EF-2A	EF-2B	EF-3	EF-4A	EF-48	FSD-EF-2	FSD-EF-4	EF-8	EF-9	SF-5A	SF-5B	SF-7	
		6														/			
		Equipment Type										5							
	Major	Component	PE-1A	PE-1A	PE-1A	PE-1A	EF-2A	EF-2A	EF-2A	EF-2A	EF-2A	EF-2A	EF-2A	EF-6A	EF-6A	EF-6A	EF-6A	EF-6A	
		Sub-System	RHTF	RHTF	RHTF	RHTF	Tunnel	Tunnel	Tunnel	Tunnel	Tunnel	Tunnel	Tunnel	UGPH	UGPH	NGPH	UGPH	NGPH	
		System	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	Vent	

					Table AC.1 - De	tailed Lifecycle Sus	tainment Plan	
		Major		Equipment Tag	FY36	FY36	FY37	FY37
tem	Sub-System	Component	Equipment Type	No.	M/R/R Activity	Program Amt	M/R/R Activity	Program Amt
ent	RHTF	PE-1A		FSD-72-U-01				
ent	RHTF	PE-1A		FSD-72-L-01				
ent	RHTF	PE-1A		FSD-A6-U-01				
ent	RHTF	PE-1A		FSD-A6-L-01				
ent	Tunnel	EF-2A		EF-2A				
ent	Tunnel	EF-2A		EF-2B				
ent	Tunnel	EF-2A		EF-3				
ent	Tunnel	EF-2A		EF-4A	Motor Replacement	\$158000		
ent	Tunnel	EF-2A	G	EF-48	Motor Replacement	\$ 158 000		
ent	Tunnel	EF-2A		FSD-EF-2				
ent	Tunnel	EF-2A		FSD-EF-4				
ent	UGPH	EF-6A		EF-8				
ent	NGPH	EF-6A		EF-9				
ent	UGPH	EF-6A		SF-5A	Motor Replacement	\$ 237 000		
ent	UGPH	EF-6A		SF-5B	Motor Replacement	\$237 000		
ent	NGPH	EF-6A		SF-7				
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