**Westinghouse
Astronuclear
Laboratory**

SNPO-C

WANL-TME- 27 41
SEPTEMBER 1970

DATA ITEM M-110
TEST SUPPORT EQUIPMENT
AEROSPACE GROUND
EQUIPMENT PLAN
R-SERIES SUPPORT EQUIPMENT
VOLUME II

MASTER

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**Westinghouse
Astronuclear
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**Subcontract NP-1
CODE IDENT NO. 14683**

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SEPTEMBER 1970**

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VOLUME II.**

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Approved By
E. J. Ney, Manager
Test Operations

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3.0	Pictorial Sequence Flow Diagrams

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM														REMARKS
	Test Car Closure Kit	X														5.1.3.1
	Existing RTS L3 Locomotive	X														5.1.3.2, 5.1.3.3, 5.1.4, 3.1.2, 1.2.3, 1.3.1, 1.3.4
	Manned Control Car	X														5.1.3.2, 5.1.3.3, 5.1.4, 3.1.2, 1.2.3, 1.3.1, 1.3.4
	Spacer Car	X														5.1.3.2, 5.1.3.3, 5.1.4, 3.1.2, 1.2.3, 1.3.1, 1.3.4
	Poison Wires	X														5.2.1
	Poison Wire Retention Plate	X														5.2.1
	Poison Wire Retainer Hardware	X														5.2.1
	Dummy Control Drum . Shafts and Cover Plates	X														5.2.7, 5.2.8.1
	Closure Kit, Shipping, Pressure Vessel/NSSM	X														5.2.7, 5.2.8.1
	NSSM Nozzle End Guide Plate	X														5.2.7
	Lifting and Handling Fixture NSSM	X														5.2.7, 5.2.8.1, 5.2.9.1, 5.2.9.3, 4.1.2
	Hydrolysis Sample Mounting Clamps	X														5.2.7, 5.2.8.1
	NSSM Purge Lines	X														5.2.7, 5.2.8.1
	Existing NSSM Storage Area Purge System	X														5.2.8.2

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM																REMARKS
		R-1																
	Existing NSSM Storage Area Nuclear Radiation Monitoring Equipment	X															5.2.8.2	
	NSSM Storage Stand	X															5.2.8.2	
	NSSM Shipping Container	X															5.2.9.1	
	Existing NSSM Flat Car Purge System	X															5.2.9.1	
	Existing NSSM Tractor/Trailer Purge System	X															5.2.9.1	
	Existing NSSM Transportation Nuclear Radiation Monitoring and Safety Equipment	X															5.2.9.1	
	NSSM Environmental Monitoring System	X															5.2.9.1	
	Existing NSSM Rail Flat Car	X															5.2.9.1	
	Existing Instrumentation Rail Car	X															5.2.9.2	
	Nitrogen Tube Trailer (GFE)	X															5.2.9.2	
	Nitrogen Tube Trailer Flat Car	X															5.2.9.2	
	Tractor/Trailer Flat Car	X															5.2.9.2, 5.2.9.5	
	Existing NSSM Tractor/Trailer	X															5.2.9.4	
84003	Nozzle Shipping Closure Kit	X															5.3.2 1-2	

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM														REMARKS
		R-1														
84013	Nozzle Sling	X														5.3.2, 4.1.3, 4.2.4
84002	Nozzle Shipping Container	X														5.3.2, 5.3.3, 5.3.4
	CDDA Shipping/Storage Containers	X														5.6.2, 5.6.3
	Non-Nuclear Instrumentation Shipping Crates	X														5.7.2, 5.7.3, 5.7.4
84016	Holding Stand, Pressure Vessel/NSSM	X														4.1.2
	Existing Assembly Area Purge System	X														4.1.2
81007	Existing NSSM Trunnion Cage	X														4.2.1
	Existing NSSM Trunnion Fixture	X														4.2.1, 1.3.2.2
	Existing NSSM Trunnion Stand	X														4.2.1
81008	Lifting Fixture NSSM Trunnion Cage	X														4.2.1
	NSSM Support Stand	X														4.2.1
	NSSM Adapter Ring	X														4.2.1
	Test Assembly Personnel Stand	X														4.2.1, 4.2.4
	Control Drum Actuators Installation Tooling	X														4.2.2

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	P R O G R A M														REMARKS
		R-1														
	Peripheral Poison Wire Retraction Tool	X														4.2.3
	Retention Hardware Shipping Container	X														4.2.3
	Poison Wire Shipping Container	X														4.2.3, 3.1.1
	NSSM Nozzle End Guide Plate Shipping Container	X														4.2.3
	Nozzle Installation Tools	X														4.2.4
	Nozzle Bolt Torque Wrench	X														4.2.4
	Test Assembly Checkout Unit	X														4.3.1
84017	Nozzle Throat Plug	X														4.3.2, 4.4.1, 3.1.1, 3.2.2
	Test Assembly Leak Test Closure Kit	X														4.3.2, 4.4.1, 3.1.1, 3.2.2
	Test Assembly Pressurization Unit	X														4.3.2, 3.2.2
	Helium Leak Detector	X														4.3.2, 3.2.2
	CDDA Checker	X														4.3.3
	Valve Actuator Checker	X														4.3.3
	Test Assembly Electrical Connector Closure Kit	X														4.4.1, 3.1.1

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM														REMARKS
		R-1														
	Existing Test Assembly Storage Area Purge System	X														4.4.2
	Central Poison Wire Retractor Tool	X														3.1.1
	Test Assembly Purge System	X														3.1.1
	Test Assembly Nuclear Radiation Monitoring Equipment	X														3.1.1
	Test Assembly Vibration Monitoring System	X														3.1.1
	Test Cell C/Test Assembly Checkout Equipment	X														3.2.1, 1.1.2
81001	Nozzle Cover	X														1.2.2
	Post Test Nuclear Radia- tion Monitoring Systems	X														1.2.3
	Post Test Environmental Monitoring System	X														1.2.3
	Disassembly After- Cooling System	X														1.3.1
	Propellant Line Handling Fixture	X														1.3.2.1
81015	Tool Kit, Disassembly Remote	X														1.3.2.1, 1.3.3.1, 1.3.3.3, 1.3.3.6, 1.3.6, 1.3.7
	WMHS Grinder	X														1.3.2.1
	Pneumatic Grinder	X														1.3.2.1, 1.3.3.1, 1.3.3.3, 1.3.3.6, 1.3.6

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM														REMARKS
		R-1														
81012	Lift Fixture, Disassembly Cage	X														1.3.2.2
81013	Disassembly Cage, Remote	X														1.3.2.2
	Bolt Head Mill	X														1.3.3.1, 1.3.3.3, 1.3.3.5.1, 1.3.3.5.2, 1.3.3.5.3, 1.3.3.5.4, 1.3.3.5.9.1
	Small Parts Container	X														1.3.3.1, 1.3.3.5.5, 1.3.3.5.7, 1.3.3.5.9.1, 1.3.3.5.9.6
81017	Nozzle Handling Fixture, Remote	X														1.3.3.1
84018	Nozzle Examination Stand	X														1.3.3.1
	Instrumentation Removal Tool Kit	X														1.3.3.1, 1.3.3.5.4, 1.3.3.5.5, 1.3.3.5.10.4
	Locating Cone Retaining Fixture	X														1.3.3.2
	Reactor Fastener Removal Tools	X														1.3.3.2, 1.3.3.5.1, 1.3.3.5.2, 1.3.3.5.3, 1.3.3.5.4, 1.3.3.5.5, 1.3.3.5.10.1
	Disassembly Cutting Tools	X														1.3.3.2, 1.3.3.5.1, 1.3.3.5.4, 1.3.3.5.9.2, 1.3.3.5.10.3
	Fixture, Bolt Holding	X														1.3.3.3, 1.3.3.6
81011	Forward Closure Handling Fixture, Remote	X														1.3.3.3, 1.3.3.6
	10 Ton Crane Hook Adapter	X														1.3.3.3
	Control Shaft Retainer Clips	X														1.3.3.3

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM														REMARKS
		R-1														
	Forward Closure/Control Shaft Disassembly Stand	X														1.3.3.3
	Reactor Handling Fixture	X														1.3.3.4
81009	Pressure Vessel Handling Fixture, Remote	X														1.3.3.4
	Adapter, 40 Ton Crane Hook	X														1.3.3.4
81010	Pressure Vessel Stand, Holding	X														1.3.3.4
	Reactor Disassembly Stand	X														1.3.3.5
	Reactor Support Stand	X														1.3.3.5
	Instrumentation Lead Shears	X														1.3.3.5.1, 1.3.3.5.4
	Support Dome Handling Fixture	X														1.3.3.5.2
	Central Shield Handling Fixture	X														1.3.3.5.2, 1.3.3.5.5
	Peripheral Shield Handling Fixture	X														1.3.3.5.3, 1.3.3.5.5
	Shield Disassembly Stand	X														1.3.3.5.5
	Wall Periscope	X														1.3.3.5.5, 1.3.5
	Reflector Jacket Removal Fixture	X														1.3.3.5.6

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM															REMARKS
		R-1															
	Lateral Support Removal Tools	X															1.3.3.5.7, 1.3.3.5.10.4
	Core Removal Cage	X															1.3.3.5.8
	Existing Floor Mounted Handling System	X															1.3.3.5.8
	Core Disassembly Stand	X															1.3.3.5.9
	Core Photographic System	X															1.3.3.5.9
	Core Fastener Removal Tools	X															1.3.3.5.9.1, 1.3.3.5.9.3, 1.3.3.5.9.6
	Core Holding Plate	X															1.3.3.5.9.1
	Support Plate/Plena Handling Fixture	X															1.3.3.5.9.3
	Support Plate/Plena Inspection Stand	X															1.3.3.5.9.3
	Filler Strip Retaining Fixture	X															1.3.3.5.9.4
	Long Parts Trays	X															1.3.3.5.9.4, 1.3.3.5.10.3, 1.3.3.5.10.5
	Long Parts Containers	X															1.3.3.5.9.4, 1.3.3.5.9.6
	Insulation Foil Removal Tools	X															1.3.3.5.9.4
	Existing Cluster Transfer Stand	X															1.3.3.5.9.5

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM														REMARKS
		R-1														
	Existing Cluster Disassembly Stand	X														1.3.3.5.9.5
	SSA and CHEH Disassembly Tools	X														1.3.3.5.9.6
	Cluster Disassembly Tools	X														1.3.3.5.9.6
	Fuel Element Cask Inserts	X														1.3.3.5.9.6
	Fuel Element Trays	X														1.3.3.5.9.6
	Cask Insert Handling Fixture	X														1.3.3.5.9.6
	Center Element Disassembly Fixture	X														1.3.3.5.9.6
	Fuel Element Separation Tools	X														1.3.3.5.9.6
	Control Drum Handling Fixture	X														1.3.3.5.10.1, 1.3.3.5.10.5
	Control Drum Storage Stand	X														1.3.3.5.10.2
	Tie Bolt Nut Removal Tool	X														1.3.3.5.10.2
	Core Support Ring Handling Fixture															1.3.3.5.10.3
	Reflector Ring Handling Fixture	X														1.3.3.5.10.3, 1.3.3.5.10.4
	Reflector Ring Storage Containers	X														1.3.3.5.10.3

NERVA TSE/AGE PROGRAM USE INDEX

PROV. NO.	EQUIPMENT TITLE	PROGRAM																REMARKS
		R-1																
	Aft Support Ring Handling Fixture	X															1.3.3.5.10.3	
	Locating Cone Handling Fixture	X															1.3.3.5.10.3	
	Reflector Ring Disassembly Stand	X															1.3.3.5.10.4	
	Control Drum Disassembly Stand	X															1.3.3.5.10.5	
81054	Forward Closure Disassembly Stand	X															1.3.3.6	
	Drive Shaft Storage Stand	X															1.3.3.6, 1.3.3.7	
	Forward Closure Stand	X															1.3.3.7	
	Drive Shaft Handling Fixture	X															1.3.3.7	
	Actuator Coupling Removal Tool	X															1.3.3.8	
	Actuator Storage Containers	X															1.3.3.8	
	Actuator Disassembly Tools	X															1.3.3.8	
	Existing TV System Equipment	X															1.3.5	
	Existing Photographic Processing Equipment	X															1.3.5	
																	1-10	

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Test Car Closure Kit		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
				END USE SITE NRDS - MAD/TCC														
				QUANTITY														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5,1,3,1	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The test car closure kit provides cap plugs, line caps, blank flanges, polyethylene sheeting, special wooden cover, tape, etc. to seal line openings and larger subassemblies on the test car.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing RTS Locomotive	PART NO.	SPECIFICATION NO.
			DESIGN SHEET NO.
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS	
		QUANTITY	
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.1.4, 5.1.3.2, 5.1.3.3, 3.1.2, 1.2.3, 1.3.1, 1.3.4.4	CONTRACTOR GFE	PAGE REVISION DATE
USE CATEGORY			
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐
TECHNICAL DESCRIPTION			
<p>The existing, remotely controlled, electric locomotive is used to transport the test assembly between the MAD and the test cell, on the NRDS Rail Transport System.</p>			

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO 81003	EQUIPMENT TITLE Manned Control Car (MCC)	PART NO.	SPECIFICATION NO
INTERFACING PART NO.		INTERFACING PART TITLE L3 Locomotive, Spacer Car	DESIGN SHEET NO
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.1.3.2,5.1.3.3,5.1.4,3.1.2,1.2.3, 1.3.1, 1.3.4	END USE SITE NRDS
		CONTRACTOR ANSC	QUANTITY
		USE CATEGORY	PAGE REVISION DATE
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐

TECHNICAL DESCRIPTION

The MCC is a specially designed railway vehicle consisting of an undercarriage and engine compartment supporting a shielded control cab. The cab is shielded to protect two operators and contains a direct viewing window, instrumentation, two way communications, television monitors and controls for the entire Railroad Transport System.

The MCC was used for the XE-Program and will be modified to accommodate the 75K NERVA Full Flow Engine. The re-design includes instrumentation, electrical and TV circuitry changes coextensive with the circuitry modifications to the L3 locomotive.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE <div align="center">Car, Spacer</div>				PART NO.	SPECIFICATION NO.												
					DESIGN SHEET NO													
INTERFACING PART NO			INTERFACING PART TITLE							END USE SITE NRDS								
										QUANTITY 1								
PROGRAM PROVISIONED FOR Reactor Ground Test			RAS REFERENCE FUNCTION NUMBER (S) 5.1.3.2,5.1.3.3,5.1.4,3.1.2,1.2.3,				CONTRACTOR ANSC				PAGE REVISION DATE							
			1.3.1,1.3.4				USE CATEGORY											
DEVELOPMENT			PRE-QUALIFICATION				QUALIFICATION				OPERATIONAL							
☒			☒				☒				☐							
TECHNICAL DESCRIPTION																		
<p>This existing unit is a modified standard railway car. It has the capability of coupling and controlling other railway cars when used with the locomotive and the MCC. One end of the car is provided with remotely operable coupling to interface with the test car. The other end is equipped with a standard coupling and umbilical connector for interfacing the required controls and instrumentation with the MCC, and prime mover.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Poison Wires		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.1	CONTRACTOR WANI		END USE SITE NRDS													
					QUANTITY To be determined													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The poison wires consist of an ~ 80% dense B₄C powder packed within a thin stainless steel tube which is in turn covered with a polyethylene jacket. The wires provide a nuclear poison by restricting neutron activity within the core to the extent that any conceivable reactivity addition cannot cause criticality. The wires are secured by the poison wire retention hardware described in P/C _____. The total number of wires required is determined during NSSM assembly operations.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Plate, Retention, Poison Wire	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE WANL-NRDS Transportation																
		QUANTITY																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.1	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The poison wire retention plate is a flat circular metal plate which interfaces with the poison wire hardware. A right cylindrical extension is mounted on the outer surface, extending to within about 1/8" of the NSSM nozzle end closure plate. The purpose of the plate is to provide support for the retention hardware while the extension ensures poison wire retention for the 30' shipping drop test requirements.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Retainer Hardware, Poison Wires	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY To be determined																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.1	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The poison wire retainer hardware provides a positive mechanical means of securing the poison wires to the reactor aft end face. The specific configuration of the hardware is determined by the aft end geometry.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Dummy Control Drum Shafts and Cover Plates (R-1)	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE WANL																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.7, 5.2.8.1	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>Dummy control drum shafts and cover plates are used in conjunction with the R-1 NSSM only since the CDDA for use with the R-1 test assembly are shipped separate from the NSSM. The dummy control drum shafts must be capable of restraining drum rotation. The cover plates must bolt to each actuator mounting port to prevent contamination from entering the actuator mounting ports. A positive seal for a ΔP of 7 PSIG is required.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO. 84000	EQUIPMENT TITLE Closure Kit, Shipping, Pressure Vessel/NSSM		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Pressure Vessel		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.7, 5.2.8.1	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The PV/NSSM Shipping Closure Kit shall include the following: reuseable wooden shipping crate, bolts, seals, eyelets, lifting fixture and closure. The closure shall duplicate the nozzle-to-PV and nozzle-to-reactor interfaces. The closure shall be capable of sealing the nozzle end of the Pressure Vessel during leak test at 100 psig of helium and during shipment of the NSSM. Provisions shall be provided on the closure for purging and/or pressurizing the NSSM.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Nozzle End Guide Plate		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.7	CONTRACTOR WANL		END USE SITE WANL													
					QUANTITY													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The nozzle end guide plate is a circular plate that fits on the nozzle end closure and is used primarily for shipping purposes. It also serves as a guide when the NSSM is lowered into the shipping container.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Lifting and Handling Fixture	PART NO.	SPECIFICATION NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	DESIGN SHEET NO.	END USE SITE WANI - NRDS															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.7; 5.2.8.1; 5.2.9.1; 5.2.9.3; 4.1.2	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐															
TECHNICAL DESCRIPTION																		
<p>The NSSM lifting and handling fixture is a steel three-legged strongback with extension arms capable of handling the NSSM, the NSSM loaded in the shipping container, and the shipping container cover. The three equally spaced legs are joined at the center and welded to cover plates, and a centrally located lifting bail. The extension arms engage the designated lift points on the NSSM the lifting lugs of the container, or its cover with quick acting bail lock type pins. Capacity of this fixture is 20,000 lb., based on an ultimate safety factor of 10.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Hydrolysis Sample Mounting Clamps		PART NO.	SPECIFICATION NO														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
				END USE SITE WANL														
				QUANTITY 4														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.7, 5.2.8.1	CONTRACTOR WANL	PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The hydrolysis sample mounting clamps are used to support hydrolysis samples in containers, inside of the NSSM shipping container.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Purge Lines		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.7; 5.2.8.1		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The NSSM purge lines consist of all necessary lines and fittings to connect the NSSM and the hydrolysis samples purge fittings to the shipping container internal purge fittings.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Purge System, Storage Area	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE WANL - RAL																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2,8,2	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The NSSM Purge System used in the NSSM assembly and storage area at WANL consists of an approved gas supply, driers, filters and lines to purge the NSS during various stages of assembly. The completed NSSM may be stored in the assembly bay on its stand where it is purged with this system.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Nuclear Radiation Monitoring Equip., Storage Area		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE NSSM		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.8.2		END USE SITE WANL														
		CONTRACTOR		QUANTITY --														
PAGE REVISION DATE																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Nuclear Radiation Monitoring Equipment consists of fixed and portable measuring instruments capable of detecting neutron activity with a + 25% accuracy and gamma activity with + 20%. An accident condition of 300 rem/hr at 1 ft. will excite a clearly audible alarm when the detector is set at 20 mr/hr and located within 120 ft of the source. The personnel dosimeters furnish enough data to normalize information derived from the fixed system and both systems provide the range necessary to convert rad. to rem doses. The units using foils are shock and fire resistant and are sealed against localized contamination. Effluent monitors are portable units with the required range, accuracy and output.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, NSSM Storage		PART NO.	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE NSSM		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.8.4	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The NSSM storage stand is used to support the NSSM during storage at WANL. The stand will support the NSSM, weighing approximately 16,000 lbs. in a vertical, nozzle up or down position.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Shipping Container, NSSM		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE NSSM		DESIGN SHEET NO														
				END USE SITE WANL														
				QUANTITY														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.1		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>This container will provide protection for the NSSM during transit. It consists of an outer container and an inner support skirt which retains the NSSM and is isolated from the outer container by a shock and vibration mounting system. The container is capable of being sealed, purged and pressurized to a pressure of 5 PSIG with relief valves set at approximately 7 1/2 PSIG.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing NSSM Purge System, Flat Car	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE Transportation WANL/NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.1	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The existing NSSM Flat Car Purge Systems consist of approved gas suppliers, dryers, filters, interconnecting tubing, and an effluent sampling station. The system provides clean dry nitrogen to the NSSM via the shipping container inter-connecting lines during transportation operations. Initial gas supply is from a bank of 12 K bottles on the flat car. While in transit gas is fed from the government furnished tube trailer. All interconnecting lines contain flex hoses where relative movement can occur during transit and handling and the sampling station allows by-pass flow when sample effluent is being extracted.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing NSSM Purge System, Tractor/Trailer		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.1	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The existing Tractor Trailer Purge System supplies approved gas to the NSSM during road transit from the Las Vegas, Nev. railhead to NRDS/MAD. The system consists of K bottles, valves, lines, dryers and filters and connects to the NSSM via the interconnecting piping within the shipping container. Gas, dryers, filters, etc. are identical to those used in the flat car purge system.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Existing NSSM Nuclear Radiation Monitoring and Safety Equipment, Transportation		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.1	CONTRACTOR		PAGE REVISION DATE													
END USE SITE WANL, NRDS Transportation																		
QUANTITY																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The in-transit radiation monitoring and safety equipment includes an alpha survey meter to monitor NSSM purge effluent, beta-gamma survey meters, personnel dosimeters, ion chamber for health physics measurements, a gamma scintillation probe and self reading gamma dosimeters. The preceding and additional safety clothing and equipment are specified in detail in AEC Manual, Part 0500, Chapter 0545 and the appropriate WANL shipping procedures.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Environmental Monitoring System		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.1	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The NSSM Environmental Monitoring System includes a variety of equipment used to check and record the net effect of handling transit and environment on the NSSM. Several sets of tri-axial accelerometers and LVDT's are mounted directly on the NSSM and their output suitably amplified and recorded on oscillographs. Temperature and pressure within the shipping container are obtained by direct reading thermometers and gauges. Rail and road speeds are recorded by tachometers and the speed monitored. A complete detailed list of the environmental monitoring equipment is provided on the appropriate WANL drawings as noted in the shipping procedures.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Rail Flatcar	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE WANL																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.1	CONTRACTOR WANI	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>An existing NSSM rail flatcar consisting of a standard 50 ft. railroad flatcar with tie-down brackets, bolts and shoring to secure the NSSM/shipping container during transit. Two 10 KW and one 5 KW generator, a diesel fuel storage tank, flood lights, safety rails, purge system and power and instrumentation cabling are mounted on the deck and frame. This car couples to the instrumentation car during NSSM shipping.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Instrumentation Rail Car		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.2	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The existing instrumentation rail car consists of a standard 50 ft. railroad baggage car modified to provide, with a controlled environment, working space, power, lighting and equipment mounts for monitoring instrumentation required during reactor shipments.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Tube Trailer Nitrogen	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE Transportation WANL/NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.2	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The tube trailer provides nitrogen for the NSSM Flat Car Purge system (RAS 5.2.8.2). The trailer furnishes approximately 30,000 scf of the gas stored at about 2500 psi and is Government Furnished Equipment (GFE).</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Nitrogen Tube Trailer Flatcar		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.2	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The nitrogen tube trailer flatcar consists of a standard 50 ft. railroad flatcar with tie-downs and chocks to secure the nitrogen tube trailer during transit. This equipment will be leased.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Tractor/Trailer Flatcar	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE WANL																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.2; 5.2.9.5	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The tractor/trailer flatcar consists of a standard 50 ft. railroad flatcar with tie-downs and chocks to secure the tractor/trailer during transit. This equipment will be leased.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM - Tractor/Trailer		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.2.9.4	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The existing trailer is a modified version of a thirty (30) ton double drop low bed trailer with air cushion ride and spring loaded safety brakes. Adequate tie-downs and anchors are provided for the NSSM/shipping container. Provision for mounting of the diesel generator, the control cabinets and nitrogen supply bottles are provided. The trailer is equipped with adequate signs and lights. The existing tractor is a single axle, air-conditioned cab, equipped with a two-way radio, provision for an observer/passenger.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO. 84003	EQUIPMENT TITLE Nozzle Shipping Closure Kit	PART NO.	SPECIFICATION NO.															
INTERFACING PART NO.		INTERFACING PART TITLE Nozzle		DESIGN SHEET NO.														
		END USE SITE ANSC		QUANTITY														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.3.2		CONTRACTOR														
PAGE REVISION DATE																		
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>		PRE-QUALIFICATION <div align="center">☒</div>		QUALIFICATION <div align="center">☒</div>														
OPERATIONAL <div align="center">☐</div>																		
TECHNICAL DESCRIPTION																		
<p>The Nozzle Shipping Closure Kit shall consist of covers designed to protect the PDL and machined flanged surface of the nozzle exit opening from nicks, dents and scratches during transportation and handling operations. The nozzle inlet opening will be protected by the shipping container.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 84013	EQUIPMENT TITLE Sling, Nozzle		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Nozzle		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.3.2; 4.1.3; 4.2.4	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The nozzle sling shall provide a means of lifting the nozzle (exit end up) during shipping and assembly operations and general handling for inspection, etc. The sling shall interface with the nozzle and overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 84002	EQUIPMENT TITLE Shipping Container, Nozzle		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Nozzle		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.3.2; 5.3.3; 5.3.4	CONTRACTOR ANSC		END USE SITE ANSC													
			QUANTITY 1		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒	OPERATIONAL ☐													
TECHNICAL DESCRIPTION																		
<p>The nozzle shipping container shall be a reusable container for shipping the nozzle in a vertical attitude. It consists of a fork lift mounted skid base with padded cradle and tie down straps. The base shall be provided with eyelets for lifting with an overhead crane and sling in the loaded or unloaded condition. The cover shall mate with the base to provide a dust free enclosure. Eyelets shall be provided on the cover for lifting with an overhead crane and sling.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE CDDA Shipping/Storage Containers	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE WANL																
		QUANTITY 20																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 5.6.2; 5.6.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The CDDA Shipping/Storage Containers are provided to preclude damage and to provide and maintain a positive dry inert atmosphere for the CDDA equipment during storage and transportation. The containers shall be capable of being handled by fork lift or overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Shipping Crates, Non-Nuclear Instrumentation		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS - MAD														
				QUANTITY														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 5.7.2, 5.7.3, 5.7.4		CONTRACTOR														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>Shipping crates are required to contain the various types of non-nuclear instrumentation during shipment and storage. Specific design requirements for the crates will be dictated by the particular instrumentation.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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SPECIFICATION OR DESIGN SHEET APPROVAL																		
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 84016	EQUIPMENT TITLE Holding Stand, PV and NSSM	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE NSSM - Pressure Vessel	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.1.2	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The PV and NSSM Holding Stand will be a modification to PVARA Stand (P/L 4094) and shall provide a means to support the PVARA for receiving inspection, testing and storage of the assembly prior to assembly of the test article. The stand shall consist of an I beam, X shaped, weldment which shall rest on the floor. The top side of the weldment shall provide four adjustable clamps which shall clamp to the PV Shipping Closure to support the assembly in an upright nozzle end down attitude.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Purge System, Assembly Areas	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE NRDS - MAD																
		QUANTITY																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.1.2, 4.2	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The MAD NSSM Purge System consists of the approved gas supply filters, dryers, moisture monitors, control valves and regulators required to provide purge gas to a maximum of 3 NSS modules. NSSM effluent gas is collected periodically in sample bottles and processed. The entire assembly provides an easily controlled atmosphere for the NSSM which eliminates any possibility of hydrolytic reaction within the NSSM. When assembly and storage are accomplished in the same immediate area, the storage system provides gas for assembly operations.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81007	EQUIPMENT TITLE Trunnion Cage, NSSM	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE NSSM	END USE SITE NRDS	QUANTITY															
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.2.1	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐															
TECHNICAL DESCRIPTION																		
<p>The NSSM Trunnion Cage shall consist of a steel frame which interfaces with the Pressure Vessel, lifting eyes on both ends, and adjustable trunnion blocks. The cage shall be capable of supporting the complete "R" assembly in a positive manner. The cage shall interface with handling slings and ACFI Reactor Trunnion Fixture (P/L 1182).</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Trunnion Fixture - NSSM	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE Trunnion Gage, NSSM	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.2.1; 1.3.2.2	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The existing NSSM trunnion fixture is designed to receive either the NSSM trunnion cage, or the NSSM trunnion adapter during assembly or disassembly operations. It provides the capability of rotating and/or elevating the NSSM or test article. For the R-1 test program this fixture will be used for both assembly and disassembly operations. Once this fixture has been placed in the disassembly bay, it will remain there for the disassembly of all R-Series Reactors. It shall have electrically driven gearboxes and speed reducers as required to rotate the test article 300°. The stand shall have self-locking features at any point of rotation.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE NSSM Trunnion Stand		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE NSSM		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Ground Test Reactor		RAS REFERENCE FUNCTION NUMBER (S) 4.2.1	CONTRACTOR ANSC		END USE SITE NRDS													
					QUANTITY													
					PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The NSSM Trunnion Stand provides a means for holding and positioning the R-2, 3, 4, and 5 NSSM during various phases of assembly work. The unit is capable of supporting 16,000 lbs., locking weight in any position. It interfaces with the existing NSSM Trunnion Cage which holds the NSSM. The unit is a tubular aluminum structure with the appropriate drive motor, clamps and locking devices.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81008	EQUIPMENT TITLE Trunnion Cage Lifting Fixture, NSSM	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.		INTERFACING PART TITLE NSSM Trunnion Cage								END USE SITE NRDS								
										QUANTITY								
PROGRAM PROVISIONED FOR Reactor Ground Test			RAS REFERENCE FUNCTION NUMBER (S) 4.2.1				CONTRACTOR ANSC				PAGE REVISION DATE							
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>			PRE-QUALIFICATION <div style="text-align: right;">☒</div>				QUALIFICATION <div style="text-align: right;">☒</div>				OPERATIONAL <div style="text-align: right;">☐</div>							
TECHNICAL DESCRIPTION																		
<p>The NSSM Trunnion Cage Lifting Fixture is a steel three-legged strongback with extension arms capable of handling the "R" Test Article. The three equally spaced legs are jointed at the center and welded to a cover plate and a lifting bail. The extension arms shall interface with the NSSM Trunnion Cage in a positive manner, The Lifting Fixture shall be designed for a capacity of approximately 20,000 pounds.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Support Stand		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.2.1	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The NSSM Support Stand is a cooled metal structure which elevates the NSSM at a predetermined height above the test car privy roof to allow clearance for piping, instrumentation and in the case of R-2 through 5, the CDDAs. The stand interfaces with the NSSM Adapter Ring and the privy roof.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Adapter Ring		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.2.1	CONTRACTOR		END USE SITE NRDS													
					QUANTITY													
PAGE REVISION DATE																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The NSSM Adapter Ring serves as the load transition piece between the NSSM and the NSSM Support Stand.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Test Assembly Personnel Stand		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Test Car		DESIGN SHEET NO														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.2.1; 4.2.4		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Test Assembly Personnel Stand is an aluminum tube and foot tread structure used for personnel to gain access to the NSSM/test car interface and the NSSM/nozzle interface for assembly operations. They are temporarily fastened to the roof and are removed prior to any R-series performance test.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Control Drum Actuators Installation Tooling	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.2.2	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The control drum actuators installation tooling is used to install the control drum actuators on the test car to the under side of the privy roof for R-1 testing only. Includes all necessary handling fixtures, alignment devices, and special hand tools.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Peripheral Poison Wire Retraction Tool	PART NO.	SPECIFICATION NO.
			DESIGN SHEET NO.
INTERFACING PART NO.	INTERFACING PART TITLE Peripheral Poison Wire Retention Hardware		END USE SITE NRDS MAD
		QUANTITY	
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.2,3	CONTRACTOR WANL	PAGE REVISION DATE
USE CATEGORY			
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>

TECHNICAL DESCRIPTION

The Peripheral Poison Wire Retraction Tool interfaces with the appropriate poison wire retention hardware and a facility crane hook. It is used to facilitate removal of the peripheral poison wires prior to installation of the nozzle.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Shipping Container Retention Hardware		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Poison Wire Retention Plate		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.2.3	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The purpose of the retention hardware shipping container is to protect the poison wire retention plate and ring during return shipment to WANL. The shipping crate is of wood construction.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Shipping Containers, Poison Wire		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Poison Wires		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.2.3; 3.1.1	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The poison wire shipping containers are used to protect the packaged poison wires during transit. The containers are actually the fuel shipping containers commonly known as "suitcases."</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE NSSM Nozzle End Guide Plate Shipping Container	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE NSSM Nozzle End Guide Plate	END USE SITE WANL/NRDS																
		QUANTITY																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.2.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The NSSM nozzle end guide plate shipping container is provided to preclude damage to the NSSM nozzle end guide plate during shipment. The shipping crate is of wood construction.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Nozzle Installation Tools		PART NO.	SPECIFICATION NO														
INTERFACING PART NO.		INTERFACING PART TITLE Nozzle/Pressure Vessel/NSSM		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.2.4	CONTRACTOR		END USE SITE NRDS - MAD													
					QUANTITY													
PAGE REVISION DATE																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Nozzle Installation Tools are centering and positioning devices used to center the nozzle on the pressure vessel aft end and lower it into contact with the nozzle end seal over the appropriate bolt holes.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Torque Wrench, Nozzle Bolt	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.2.4	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The torque wrench is used to torque the nozzle bolts during assembly. Torque wrench is 1/2" drive, 250 ft. lb. capacity.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Test Assembly Checkout Unit		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.3.1	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The Test Assembly checkout unit is used to checkout all electrical components of the test car. The checkout unit connects to the test car instrumentation module and/or individual termination points, and supplies a signal to verify that the electrical hardware is functioning properly and that the wire terminations have been made correctly. This unit will eventually become integrated as part of the NERVA checkout unit P/L 84020.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. P/L 84017	EQUIPMENT TITLE Throat Plug, Nozzle	PART NO.	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE Nozzle	END USE SITE ANSC - NRDS																
		QUANTITY 2																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.3.2; 4.4.1; 3.1.1; 3.2.2	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The nozzle throat plug provides a means to seal the nozzle throat for containment of leak test gases and to prevent contamination from entering the test assembly during transportation and storage. It consists of an expandable collet encased with a rubber boot. The collet is expanded to lock the plug in place in the nozzle throat by rotating the shaft which extends through the plug handle. The plug shall seal with system pressures of 100 psig. Fittings for insertion of gas through the plug and a safety relief valve shall be provided on the plug.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Closure Kit, Test Assembly Leak Test	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE	NRDS															
		QUANTITY	1															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.3.2, 4.4.1, 3.1.1; 3.2.2	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The Test Assembly leak test closure kit provides the equipment necessary to close all fluid and vent openings of the test assembly with the exception of the nozzle throat to permit pressure testing during leak checkout operations and to prevent contamination from entering the test assembly during transportation and storage.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Pressurization Unit, Test Assembly		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.3.2, 3.2.2	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The test assembly pressurization unit is used to regulate helium to the test assembly at the required pressure for leak checking. The pressurization unit interfaces with the test assembly and the facility helium storage. This unit will eventually become integrated as part of the NERVA checkout unit P/L 84020.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Helium Leak Detector		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.3.2, 3.2.2	CONTRACTOR ANSC		PAGE REVISION DATE													
END USE SITE NRDS																		
QUANTITY 1																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>This unit shall have the capability of detecting helium leakage during leak testing of test assembly piping systems, prior to reactor performance testing.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE CDDA Checker	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.3.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="right">☒</div>	PRE-QUALIFICATION <div align="right">☒</div>	QUALIFICATION <div align="right">☒</div>	OPERATIONAL <div align="right">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The CDDA checker is used to check out the control drum drive actuators. The checker is an electrical device which regulates power to the actuators (one at a time), and provides a means of varying the control signal to the actuators, either by pre-programmed input or manually. The checker provides a means of displaying selected parameters. This unit will eventually become integrated as part of the NERVA checkout unit P/L 84020.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Valve Actuator Checker		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.3.3	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The valve actuator checker is an electrical device which is used to check the control valves and binary valve actuators. The checker interfaces with the test assembly instrumentation module plug to regulate power and provide a means of varying the control signal, either by pre-programmed input or manually, and to monitor valve response during various checkout tests. The checker also provides a means of displaying selected parameters. This unit will eventually become integrated as part of the NERVA checkout unit P/L 84020.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Closure Kit, Test Assembly Electrical Connector	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 4.4.1; 3.1.1	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The test assembly electrical connector closure kit is used to prevent contamination from entering and/or protect from damage the exposed electrical connectors and/or connector enclosures of the test assembly. The closure kit consists of closures or caps for all electrical connectors and/or connector enclosures of the test assembly.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Existing Test Assembly Storage Area Purge System		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS														
				QUANTITY														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 4.4.2	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The existing test assembly storage area purge system is used to provide the test article with dry nitrogen environment during periods of storage occurring after final assembly and prior to test. The purge system works in conjunction with a nozzle throat plug and the test assembly leak test closure kit. The purge system provides a continuous supply of dry purge gas to the test assembly and provides a continuous monitoring of the moisture content of the purge effluent.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Central Poison Wire Retractor Tool		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE P. W. Retention Hardware/Crane Hook		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 3.1.1		END USE SITE NRDS - MAD														
		CONTRACTOR		QUANTITY 1														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Poison Wire Retractor interfaces with the central poison wire retention hardware and the hook of the facility crane. The tool is capable of both automatic and manual latching to the removal bails.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Purge System, Test Assembly	PART NO.	SPECIFICATION NO.
INTERFACING PART NO.	INTERFACING PART TITLE	DESIGN SHEET NO.	END USE SITE NRDS
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 3.1.1	CONTRACTOR	QUANTITY 1
PAGE REVISION DATE			

USE CATEGORY

DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐
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TECHNICAL DESCRIPTION

The Test Assembly purge system consists of an approved gas supply, valves, filters, dryers and lines. It is used to purge the NSSM during transit between MAD and TCC. The system is portable in that it can be removed from the test car once the test assembly is hooked up to the TCC gas supplies.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Nuclear Radiation Monitoring Equip., Test Assembly		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS - MAD/TCC														
				QUANTITY														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 3.1.1	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>This equipment is used while the Test Assembly is in transit from MAD to TCC. It consists primarily of portable gamma and neutron detectors and personnel dosimeters of the same basic type as required for transportation (RAS 5.2.9.1). The specific equipment list is prepared by appropriate NRDS safety personnel and is contained in approved safety documentation.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Test Assembly Vibration Monitoring System		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS - MAD/TCC														
				QUANTITY 1														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 3.1.1	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Test Assembly Vibration Monitoring System consists primarily of tri-axial sets of accelerometers and LVDT's mounted on or near the NSSM. Recording equipment and power supplies are carried in a portable rack mounted to the test car deck. The intent of the system is to provide data to check that the NSSM has not experienced excessive vibration loadings.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE TCC/Test Assembly Checkout Equipment		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE	DESIGN SHEET NO.															
			END USE SITE NRDS-TCC															
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 3.2.1, 1.1.2	CONTRACTOR	PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Test Assembly Checkout Equipment is used to perform electrical checks at TCC. It consists of the appropriate volt/ohm meters, lines, clips, plugs, digital voltmeters, etc. The purpose of the checkout is to verify the integrity and correctness of the Test Assembly and Test Assembly/Test Car interconnecting wiring and establish appropriate instrumentation responses. Special checkout devices for test assembly components, such as actuators, side by side tests or special instrumentation may be defined at a later date.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81001	EQUIPMENT TITLE Cover, Nozzle	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE Nozzle	END USE SITE NRDS	QUANTITY															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.2.2	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The Nozzle Cover shall consist of a closure that will fit over the nozzle exit opening and provide environmental protection to the Reactor Assembly during all non-operating periods. It shall be capable of withstanding temperatures of approximately 1000°F and include features for allowing the outward flow of gas during system cooldown operations.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Nuclear Radiation Monitoring System, Post Test	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS - TCC/NRDS																
		QUANTITY 1																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,2,3	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The post test Nuclear Monitoring System will provide gamma and neutron meters and recording equipment to register radiation levels while the test assembly is in route to MAD following testing at TCC. Details for the design of the system will be developed at a later date following engineering studies.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Environmental Monitoring System, Post Test		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.2.3	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒ OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The Post Test Environmental Monitoring System will consist of thermal and vibration instrumentation and appropriate recorders to monitor the NSSM during transit from TCC to MAD following testing. The exact configuration of the system will be determined at a later date following engineering studies.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Disassembly After-Cooling System	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.1	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The disassembly after-cooling system is used to maintain temperature in the test article due to decay heat at a safe level during the initial phases of disassembly. The disassembly after-cooling system is remotely connected and provides a continuous, controlled flow of GN₂ per specification. It also provides a temperature monitor and an exit gas collection system for containment of reactor particles.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Fixture, Handling, Propellant Line		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,2,1	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The propellant line handling fixture permits remote lift of the horizontal section of the propellant inlet line for removal from the test assembly. The fixture is used with remote overhead crane and is actuated by the WMHS.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO. 81015	EQUIPMENT TITLE Tool Kit, Disassembly - Remote	PART NO.	SPECIFICATION NO.
INTERFACING PART NO.		INTERFACING PART TITLE	DESIGN SHEET NO.
PROGRAM PROVIDED FOR Reactor Ground Testx		RAS REFERENCE FUNCTION NUMBER (S) 1.3.2.1,1.3.3.1,1.3.3.3,1.3.3.6, 1.3.6,1.3.7	CONTRACTOR ANSC
END USE SITE NRDS		QUANTITY 1	PAGE REVISION DATE
DEVELOPMENT ☒		PRE-QUALIFICATION ☒	QUALIFICATION ☒
OPERATIONAL ☐			

TECHNICAL DESCRIPTION

The Disassembly Tool Kit - Remote shall provide all special tools required for the remote disassembly of the Test Article. These shall include the following:

1. Forward Closure/Nozzle Bolt Removal Tool
2. Propellant Line Uncoupling Tool
3. Miscellaneous tools and sockets for removal of brackets, clamps, and fasteners.

The Tool Kit shall be provided with a tool rack to support the tools in a manner convenient for use with manipulators.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE WMHS Grinder				PART NO.	SPECIFICATION NO.												
						DESIGN SHEET NO												
INTERFACING PART NO.		INTERFACING PART TITLE				END USE SITE NRDS												
						QUANTITY 1												
PROGRAM PROVISIONED FOR Reactor Ground Test			RAS REFERENCE FUNCTION NUMBER (S) 1,3,2,1			CONTRACTOR WANL						PAGE REVISION DATE						
USE CATEGORY																		
DEVELOPMENT ☒			PRE-QUALIFICATION ☒			QUALIFICATION ☒						OPERATIONAL ☐						
TECHNICAL DESCRIPTION																		
<p>The WMHS grinder is used to sever the propellant line, SSCSS lines, and pressurization lines, prior to removal of test article from the test car. The grinder is air-powered, and has a cut-off abrasive wheel, and is handled by the WMHS.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Pneumatic Grinder	PART NO.	SPECIFICATION NO.
		DESIGN SHEET NO.	
INTERFACING PART NO.	INTERFACING PART TITLE		END USE SITE NRDS
		QUANTITY 1	
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.6 1.3.2.1, 1.3.3.1, 1.3.3.3, 1.3.3.6	CONTRACTOR WANL
PAGE REVISION DATE			
USE CATEGORY			
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>
TECHNICAL DESCRIPTION			
<p>The pneumatic grinder is an adaptation of a Wilson light-weight grinder with a WMHS adapter and a nine inch cut-off abrasive wheel. The handle is replaced by a spacer block in which is incorporated the air inlet. It is primarily used to cut instrumentation leads, standoffs, and other applications where the twenty inch grinder cannot be used due to confined space.</p>			

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81012	EQUIPMENT TITLE Lifting Fixture, Disassembly Cage	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE Test Article	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S)	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The Disassembly Cage Lifting Fixture shall provide a means of remotely handling the Disassembly Cage. It shall also permit installation of the cage onto the "R" Test Article and removal of the test article from the test car and installation into the disassembly stand. The fixture shall be a three-legged strongback with vertical members and positive clamping devices adapted for use with manipulators.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81013	EQUIPMENT TITLE Disassembly Cage, Remote	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE Test Article	END USE SITE NRDS	QUANTITY															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.2.2	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐															
TECHNICAL DESCRIPTION																		
<p>The Remote Disassembly Cage shall provide a means of attachment to the Pressure Vessel during disassembly of the test article ("R" Series or "E" Engine). The cage will mate with the Pressure Vessel in a manner to leave the Forward Closure Flange area accessible for disassembly. Two Trunnion Blocks shall be provided on the cage to interface with the disassembly stand. Lifting points will be provided on the cage for the attachment of a lifting fixture.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Mill, Bolt Head		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
				END USE SITE NRDS														
				QUANTITY 1														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.1;1.3.3.3,1.3.3.5,1,1.3.3.5.2		CONTRACTOR WANL														
		1.3.3.5.3,1.3.3.5.4,1.3.3.5.9.1		PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
The bolt head mill is a back-up tool to be used for removing the heads of frozen bolts during hot disassembly.																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Containers, Small Parts		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.1; 1.3.3.5.5; 1.3.3.5.7; 1.3.3.5.9.1; 1.3.3.5.9.6		CONTRACTOR WANL														
DEVELOPMENT		PRE-QUALIFICATION		QUALIFICATION														
☒		☒		☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>These containers are used for storage of small parts after disassembly and prior to post-operative examination. They consist of a padded vessel with lifting loop and a padded cover. The parts are protected by dividers within the vessel. The containers are remotely handled by WMHS manipulators.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81017	EQUIPMENT TITLE Nozzle Handling Fixture - Remote	PART NO.	SPECIFICATION NO.															
INTERFACING PART NO.		INTERFACING PART TITLE	DESIGN SHEET NO.															
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.1	CONTRACTOR ANSC															
END USE SITE NRDS		QUANTITY 1	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐															
TECHNICAL DESCRIPTION																		
<p>The remote nozzle handling fixture shall provide a means of remotely handling the nozzle in a positive manner. The fixture shall be a rigid three legged strongback with vertical members and clamping devices adapted for manipulator operations. The fixture shall interface with the nozzle and overhead crane or manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO. 84018	EQUIPMENT TITLE Nozzle Examination Stand		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Nozzle		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,1	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☐		QUALIFICATION ☐														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The nozzle examination fixture shall provide a means to support and rotate the nozzle for visual, dimensional and photographic examination and for sectioning metallographic specimens. The fixture shall consist of a floor mounted supporting structure, and interface ring provided with trunnions and a manipulator operated gearbox. The interface ring shall have manipulator operated clamps to grasp the nozzle flange and shall be connected to the structure through the trunnions and gearbox. It shall be capable of rotation through 360°.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Instrumentation Removal Tool Kit		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.1; 1.3.3.5.4; 1.3.3.5.5; and 1.3.3.5.10.4		CONTRACTOR ANSC														
		USE CATEGORY		PAGE REVISION DATE														
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The instrumentation removal tool kit contains standard wrenches which have been specially adapted for use with the WMHS manipulator. This kit will provide the capability of remotely removing all external transducers non-destructively (excluding patch-type strain gages, etc.)</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Fixture, Retaining, Locating Cone	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.2	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the locating cone retaining fixture is to retain the reactor assembly in place in the pressure vessel during and after removal of the locating cone/vessel fasteners. The retaining fixture is installed and locked in place remotely by a WMHS manipulator, clamping the locating cone to the pressure vessel.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Reactor Fastener Removal Tools		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.2; 1.3.3.5.1; 1.3.3.5.2; 1.3.3.5.3; 1.3.3.5.4; 1.3.3.5.5; 1.3.3.5.10.1		CONTRACTOR WANL														
END USE SITE NRDS		QUANTITY 1 set		PAGE REVISION DATE														
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The reactor fastener removal tools consist of all tools necessary to remove reactor fasteners to enable removal of reactor from pressure vessel and reactor disassembly. The tools are to be air-powered and are positioned, as required, by either the WMHS or a M/S manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Disassembly Cutting Tools	PART NO.	SPECIFICATION NO.
INTERFACING PART NO.	INTERFACING PART TITLE	DESIGN SHEET NO.	END USE SITE NRDS
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.2; 1.3.3.5.1; 1.3.3.5.4; 1.3.3.5.9.2; 1.3.3.5.10.3	CONTRACTOR WANI	PAGE REVISION DATE
USE CATEGORY			
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐

TECHNICAL DESCRIPTION

The disassembly cutting tools consist of various shears and cutters used to sever wiring, lock wires, retaining clips, etc., during disassembly operations. They are capable of being handled and operated, as required, by either the WMHS or M/S manipulator.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Fixture, Bolt Holding		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Bolt, Nozzle/Forward Closure		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.3; 1.3.3.6	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The bolt holding fixture is a unit which is used to retain the nozzle and forward closure bolts once they are removed during remote disassembly. This fixture provides the following functional capabilities.</p> <ol style="list-style-type: none"> 1. Ease of grasping and handling the bolts during mechanical manipulator operations, 2. A means of efficient bolt decontamination, 3. Prevention of physical damage to the bolts prior to initiation of post-operative testing on the bolts. 																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81011	EQUIPMENT TITLE Handling Fixture, Forward Closure - Remote				PART NO.	SPECIFICATION NO.												
INTERFACING PART NO.		INTERFACING PART TITLE Forward Closure				DESIGN SHEET NO.												
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.3; 1.3.3.6				CONTRACTOR ANSC				PAGE REVISION DATE								
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒				QUALIFICATION ☒				OPERATIONAL ☐								
TECHNICAL DESCRIPTION																		
<p>The forward closure handling fixture shall provide a means of remotely lifting the forward closure from the pressure vessel during a remote disassembly. The fixture shall be a strongback with clamping devices adapted for manipulator operation.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Adapter, 10-Ton Crane Hook		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.3	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The 10-ton crane hook adapter will be used to adapt the 10-ton crane hook to the bails of handling equipment designed for the 4-ton crane and the various manipulators. It consists of a loop which passes over the 10-ton hook and a hook designed to 4-ton capacity which is rigidly attached to the loop.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Retainer Clips, Control Shaft		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.3	CONTRACTOR WANL		PAGE REVISION DATE													
END USE SITE WANL																		
QUANTITY 18																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The retaining clips will attach to and hold the control shafts to the guide tube during remote disassembly. They are designed to be installed remotely by WMHS manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, Forward Closure/Control Shaft Disassembly		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Forward Closure		DESIGN SHEET NO.														
				END USE SITE	NRDS													
				QUANTITY	1													
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.3	CONTRACTOR WANI		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The forward closure/control shaft disassembly stand will provide a means of supporting the forward closure/control shaft assembly and provide the means for seperating the control shafts from the forward closure.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Fixture, Reactor Handling	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.4	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The fixture will be used to lift the reactor assembly from the pressure vessel. The fixture is to be compatible with the 40-ton overhead crane for lifting and the WMHS for operation of the clamping devices.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81009	EQUIPMENT TITLE Handling Fixture, Pressure Vessel - Remote	PART NO.	SPECIFICATION NO.															
INTERFACING PART NO.		INTERFACING PART TITLE	DESIGN SHEET NO.															
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.4	END USE SITE NRDS															
CONTRACTOR ANSC		QUANTITY 1	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐															
TECHNICAL DESCRIPTION																		
<p>The pressure vessel handling fixture - remote shall attach to the pressure vessel by means of a metal ring which fits around the vessel. The inner surface shall have an inflatable pneumatic tube which will provide a friction grip on the pressure vessel. The ring shall be rigidly attached to a "U" frame. The "U" frame shall be provided with a lifting bail on the longitudinal axis.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Adapter, 40-Ton Crane Hook	PART NO.	SPECIFICATION NO.
			DESIGN SHEET NO.
INTERFACING PART NO.		INTERFACING PART TITLE	
		END USE SITE NRDS	
		QUANTITY 1	
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.4	CONTRACTOR WANL
		PAGE REVISION DATE	
USE CATEGORY			
DEVELOPMENT <div style="text-align: right;">☒</div>		PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>
		OPERATIONAL <div style="text-align: right;">☐</div>	

TECHNICAL DESCRIPTION

The 40-ton crane hook adapter will be used to adapt the 40-ton crane hook to the bails of handling equipment designed for the 5-ton crane and the various manipulators. It consists of a loop which passes over the 40-ton hook and a hook designed to 5-ton capacity which is rigidly attached to the loop.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO. 81010	EQUIPMENT TITLE Holding Stand, Pressure Vessel		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1. 3. 3. 4	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The pressure vessel holding stand shall provide a means to support the pressure vessel in an aft end up attitude during remote disassembly or examination operations. It consists of a circular, padded support base approximately 12 inches high and 68 inches in diameter on which the forward flange of the pressure vessel rests. A lifting handle approximately 90 inches high shall extend from the center of the base through the center of the pressure vessel for handling the stand and vessel with an overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Reactor Disassembly Stand	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE Reactor Assembly	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The reactor disassembly stand will provide the means to support and position the reactor for subsequent remote disassembly operations. It serves this function after the reactor is removed from the pressure vessel and until the piping, shields, reflector cylinder, lateral support system, support plate/core assembly, and reflector components have been removed.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, Reactor Support	PART NO.	SPECIFICATION NO.
			DESIGN SHEET NO
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS	
		QUANTITY 1	
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5	CONTRACTOR WANL	PAGE REVISION DATE
USE CATEGORY			
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>
TECHNICAL DESCRIPTION			
<p>The reactor support stand is used to support the reactor in the event of malfunction or servicing of the reactor disassembly stand. The stand will safely support the reactor in a vertical position. Clamping devices will be remotely operable by WMHS manipulator.</p>			

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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SPECIFICATION OR DESIGN SHEET APPROVAL																		
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FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Instrumentation Lead Shears	PART NO	SPECIFICATION NO
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE	DESIGN SHEET NO
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.1; 1.3.3.5.4	CONTRACTOR WANL	PAGE REVISION DATE
USE CATEGORY			
DEVELOPMENT ☒	PRE-QUALIFICATION ☒	QUALIFICATION ☒	OPERATIONAL ☐

TECHNICAL DESCRIPTION

The instrumentation lead shears are used to cut various instrumentation leads while the reactor is being disassembled. The shears are operated remotely by the M/S manipulators.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Periscope, Wall		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3,5.5; 1.3.5		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The existing wall periscope is an L-shaped instrument designed to permit remote viewing of operations within a hot area. The hemispheric scan capability of the periscope permits the observer to view and, with the camera adapter and camera, photograph any object on the hot side of the wall within a solid angle of 180° centered on the objective end. The wall thickness at the periscope location is 60 inches.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
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DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Handling Fixture, Support Dome	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1	PAGE REVISION DATE															
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.2	CONTRACTOR WANL																
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the support dome handling fixture is to lift the support dome from the reactor and place it on a disposal pallet. The handling fixture shall be remotely attached by WMHS manipulator and lifted by overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
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ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Handling Fixture, Central Shield		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.2; 1.3.3.5.5	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The purpose of the central shield handling fixture is to lift the central shield from the reactor and place it temporarily on a disposal pallet or on the shield disassembly stand. The handling fixture shall be remotely attached by WMHS manipulator and lifted by the 10-ton overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Handling Fixture, Peripheral Shield	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE	NRDS															
		QUANTITY	1															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.3; 1.3.3.5.5	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the peripheral shield handling fixture is to lift the peripheral shield from the reactor and place it temporarily on a disposal pallet or on the shield disassembly stand. The handling fixture shall be remotely attached by WMHS manipulator and lifted by the 10-ton overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, Shield Disassembly				PART NO.	SPECIFICATION NO.												
INTERFACING PART NO.		INTERFACING PART TITLE				DESIGN SHEET NO.												
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3,3.5.5		CONTRACTOR WANL		END USE SITE NRDS												
						QUANTITY 1												
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒		OPERATIONAL ☐												
TECHNICAL DESCRIPTION																		
<p>The purpose of the shield disassembly stand is to support either the central shield or the peripheral shield during disassembly operations. Stand configuration shall permit accessibility of M/S manipulator and attached small tools.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Fixture, Removal, Reflector Jacket	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,6	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the reflector jacket removal fixture is to cut the stainless steel liner in halves. remove liner from the reflector and place it on a disposal pallet. The fixture shall grip the liner securely to avoid damage to the reflector and shall be operated remotely by WMHS manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Lateral Support Removal Tools		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,7; 1,3,3,5,10,4	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The lateral support removal tools are used remotely to remove the lateral support hardware from the reflector, during hot disassembly operations. This consists of all tools necessary to remove the plunger spring retention caps and screws, and the plungers. The tools are operated by M/S manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Core Removal Cage		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Core Assembly		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,8	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The core removal cage provides a means of remotely elevating the support plate/core assembly from the reflector and interfaces the assembly with the core disassembly stand. It provides lateral support to the core assembly for rotation within the stand. The elevator portion of the cage is removed vertically to allow access to the support plate and the upper half of the cage is removed horizontally to permit unstacking the core. The cage will also interface with a core retaining plate that prohibits axial movement when the support plate is removed. The cage will be transported vertically by the overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing Floor Mounted Handling System		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS														
				QUANTITY 1														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.8	CONTRACTOR		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The existing floor mounted handling system travels on tracks in the MAD Building and is capable of transporting all loaded assembly and disassembly stands and holding fixtures. It has a load capacity of 60,000 lbs. static; 37,000 lbs. for transport.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Core Disassembly Stand	PART NO	SPECIFICATION NO															
		DESIGN SHEET NO																
INTERFACING PART NO	INTERFACING PART TITLE Core Removal Cage	END USE SITE MAD, CDAE Cell	QUANTITY 1															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1, 3, 3.5, 9	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The stand provides the means of remotely positioning the core assembly during core disassembly. The stand will vertically on-load the core assembly within the core removal cage at the trunnion and provide 360° turnable and 180° trunnion motions.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Photographic System Core		PART NO.	SPECIFICATION NO														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
				END USE SITE NRDS														
				QUANTITY														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The core photographic system is used to photograph the core from overhead during the core unstacking operations. The photographic system provides high resolution, flat field of view of the entire exposed surface of the core.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Core Fastener Removal Tools	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE	NRDS															
		QUANTITY	1 Set															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.1; 1.3.3.5.9.3; 1.3.3.5.9.6	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The core fastener removal tools consist of all tools necessary to remove core fasteners during disassembly of core. The tools are to be air-powered and are positioned by M/S manipulators.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Plate, Core Holding		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS														
				QUANTITY 1														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.1		CONTRACTOR WANL														
PAGE REVISION DATE																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The purpose of the core holding plate is to support the aft end of the core after removal of the cluster nuts and prior to a vertical trunnion of the core. The support plate is installed remotely by a manipulator, on the aft end of the core removal cage.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____				CONTRACT YEAR 19 ____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Support Plate/Plena Handling Fixture	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE Support Plate/Plena	END USE SITE NRDS	QUANTITY 1															
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The support plate/plena handling fixture is used to lift the support plate/ plena assembly from the core assembly and place it on the support plate/ plena inspection stand. The fixture will be attached by the CDAE cell manipulator and lifted by overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Stand, Inspection, Support Plate/Plena	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="right">☒</div>	PRE-QUALIFICATION <div align="right">☒</div>	QUALIFICATION <div align="right">☒</div>	OPERATIONAL <div align="right">☒</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the support plate/plena inspection stand is to support the support plate/plena during post-operative examination and removal of the seal ring. Stand configuration shall be such as to allow access by WMHS manipulator mounted disassembly tools.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Fixture, Filler Strip Retaining	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS	QUANTITY 1															
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.4	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>This fixture is used to prevent inadvertent dislodging and subsequent falling of filler strips during the sequential filler strip removal in the course of core disassembly.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Trays, Long Parts		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.3 - 1.3.3.5.10.5	CONTRACTOR WANL		PAGE REVISION DATE													
END USE SITE NRDS																		
QUANTITY 1 Set																		
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The purpose of the long parts trays is to receive and store various long parts after disassembly and prior to post-operative examination. The tray is of aluminum construction, is padded with neoprene, and has a lifting bail for remote handling by manipulators.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Container, Long Parts		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.4 - 1.3.3.5.9.6	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>These containers are used for storage of long parts after post-operative testing and prior to final disposal. They consist of a padded vessel with lifting loop and a padded cover. The parts are protected in individual tubes within the vessel. The containers are assembled and handled remotely by manipulators.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Tools, Removal, Insulation Foil	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.4	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The insulation foil removal tools are used to remove the insulation foil from the core periphery. Tools are positioned by manipulator, to grip and cut the foil.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Existing Cluster Transfer Stand	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE	NRDS															
		QUANTITY	1															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.5	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The existing cluster transfer stand is used during removal of the cluster assemblies from the core. It provides vertical and horizontal indexing for the V-trays during disassembly operation. The system is electrically driven and remotely operated. It will be used in conjunction with the cluster disassembly station.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing Cluster Disassembly Stand	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.5	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The existing cluster disassembly stand will be used in the cluster disassembly operations for transferring cluster components to FEPS and inspection stations within the CDAE cell.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE SSA and CHEH Disassembly Tools		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.6	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The SSA and CHEH disassembly tools are used to remotely disassemble the support stem assemblies and hot end hardware into components for post operative examination. The tools will consist of pneumatic wrenches and cutting tools, which are handled by M/S manipulators.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Cluster Disassembly Tools		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3,3.5,9.6	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The cluster disassembly tools consist of all tools required to remotely disassemble a fuel cluster into fueled and non-fueled components. Tools are mechanical and/or pneumatic and are handled by M/S manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Insert, Fuel Element Cask	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1 Set																
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,9,6	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The cask insert is an item of equipment used for storing 100 fuel elements after test. It is constructed of aluminum plates and boral poisoning. The size and shape is compatible with existing LASL shielding shipping casks. One set of 25 inserts will be required for each reactor.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Fuel Element Trays		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
				END USE SITE NRDS														
				QUANTITY 36														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.6	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒	OPERATIONAL ☐													
TECHNICAL DESCRIPTION																		
<p>The fuel element trays are used to handle six full length elements horizontally for transfer or temporary storage during disassembly and post operative examination. These trays are fabricated from aluminum and each tray is provided with a central collapsible handle which allows the tray to be placed in the fuel element library drawers. The handle is held upright by a spring clip.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Cask Insert Handling Fixture	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,9,6	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The cask insert handling fixture will be used to handle the cask inserts in a horizontal position. The fixture consists of a four legged device with hooks on the ends of the vertical legs which will engage lugs in the cask insert. The fixture will be provided with a bail for remote manipulator handling.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Center Element Disassembly Fixture	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE	NRDS															
		QUANTITY	1															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.6	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The center element disassembly fixture will be used to remove the liner from the center element. It consists of a ram and mandrel which will push the liner from the center element as the element is passed over the mandrel.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Fuel Element Separation Tools	PART NO.	SPECIFICATION NO.
		DESIGN SHEET NO.	
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE	NRDS
		QUANTITY	1 Set
PROGRAM PROVISIONED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.9.6	CONTRACTOR WANL	PAGE REVISION DATE
USE CATEGORY			
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>

TECHNICAL DESCRIPTION

The purpose of the fuel element separation tools is to assist in separating fuel elements from a cluster, where bonding of adjacent fuel elements has occurred.

FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Handling Fixture, Control Drum				PART NO.	SPECIFICATION NO												
					DESIGN SHEET NO													
INTERFACING PART NO		INTERFACING PART TITLE			END USE SITE NRDS													
					QUANTITY 1													
PROGRAM PROVIDED FOR Reactor Ground Test			RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.1 - 1.3.3.5.10.5			CONTRACTOR WANL			PAGE REVISION DATE									
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>			PRE-QUALIFICATION <div align="center">☒</div>			QUALIFICATION <div align="center">☒</div>			OPERATIONAL <div align="center">☐</div>									
TECHNICAL DESCRIPTION																		
<p>The control drum handling fixture is attached to the control drum drive shaft coupling. This fixture is used with the WMHS manipulator for removal of the control drum from the reflector. The fixture is used in the MAD main disassembly bay.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, Control Drum Storage		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.1 - 1.3.3.5.10.5		CONTRACTOR WANL														
END USE SITE NRDS		QUANTITY 1		PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The control drum storage stand is a vertical stand capable of holding 18 control drums in a vertical position. This stand will be located in the main hot bay of the MAD Building.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Tool, Tie-Bolt Nut Removal		PART NO	SPECIFICATION NO														
INTERFACING PART NO		INTERFACING PART TITLE		DESIGN SHEET NO														
				END USE SITE NRDS														
				QUANTITY														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.2		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The tie-bolt nut removal tool will be positioned by a manipulator and used to remove the tie-bolt nuts during the disassembly of the reflector. The tool will consist of a non-impacting gear motor of sufficient capacity to assure the removal of the tie-bolt nuts. Reflected torque will be transmitted to the support plate.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Core Support Ring Handling Fixture		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,10,3	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The purpose of the core support ring handling fixture is to lift the core support ring in a centerline vertical attitude from the reflector assembly and place it on a disposal pallet. The fixture is remotely attached and lifted by WMHS.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Reflector Ring Handling Fixture		PART NO.	SPECIFICATION NO														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.3 - 1.3.3.5.10.4		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
				OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>This fixture is capable of lifting the entire reflector ring assembly in a centerline vertical attitude and placing it in the reflector ring disassembly stand. This fixture is used in the hot disassembly bay. Attachment is adaptable to WMHS operation.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Reflector Ring Storage Container	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1 set																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The reflector ring storage container is designed for remote handling, shipping, and storage. The container is of aluminum construction and is lined with neoprene to prevent damage to the reflector rings.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Aft Support Ring Handling Fixture		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,5,10,3	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The purpose of the aft support ring handling fixture is to lift the aft support ring from the reactor disassembly stand and place it on a disposal pallet. The fixture is remotely attached and lifted by WMHS.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV. NO.	EQUIPMENT TITLE Locating Cone Handling Fixture	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3,3.5,10.3	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the locating cone handling fixture is to lift the locating cone from the reactor disassembly stand and place it on a disposal pallet. The fixture is remotely attached and lifted by WMHS.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Reflector Ring Disassembly Stand		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO.														
PROGRAM PROVIDED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3.5,10.4	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The reflector ring disassembly stand supports and rotates the reflector ring assembly in a centerline vertical and centerline horizontal attitude and locks in either position during remote disassembly. The stand is operable by M/S manipulator and accessible to disassembly tools. The stand is used in the main hot disassembly bay of the MAD.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, Control Drum Disassembly	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS	QUANTITY 1															
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.5.10.5	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The control drum disassembly stand is used to remove the control drum hardware. This stand is used in the main hot bay of the MAD Building. The stand receives the control drum assembly in the vertical position and trunnions it to the horizontal for disassembly operations.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO. 81054	EQUIPMENT TITLE Forward Closure Disassembly Stand	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE Forward Closure/Actuator	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.6	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The forward closure disassembly stand will consist of floor-mounted device capable of supporting the forward closure of the PV&C subsystem with control drum drive actuators assembled to the forward closure. The stand will interface with the PV-to-closure flange and support the closure in a forward-end-up attitude. The purpose of the stand is to facilitate removal of control drum drive actuators from the closure.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Drive Shaft Storage Stand		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.6, 1.3.3.7		CONTRACTOR WANL														
				PAGE REVISION DATE														
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		OPERATIONAL ☐														
TECHNICAL DESCRIPTION																		
<p>The drive shaft storage stand provides storage for 18 control drum drive shafts during cold and hot disassembly. It also is adapted for handling by the WMHS manipulators, and 10 ton overhead crane.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Stand, Forward Closure		PART NO.	SPECIFICATION NO.														
INTERFACING PART NO.		INTERFACING PART TITLE Forward Closure		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1,3,3,7	CONTRACTOR ANSC		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The forward closure stand is used to support the forward closure during manual and/or remote assembly, disassembly, and maintenance operations. The stand supports the forward closure at a height of 12 inches above the floor and is fitted with sling attachment eyes for movement with overhead hoists.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Drive Shaft Handling Fixture	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.7	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The purpose of the drive shaft handling fixture is to transfer the drive shafts to the drive shaft storage stand. The handling fixture lifts the drive shaft in a vertical position and is remotely operated by WMHS manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO	EQUIPMENT TITLE Actuator Coupling Removal Tool	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 1																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.8	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The actuator coupling removal tool is used to remotely remove the actuator/forward closure coupling to enable removal of the actuator from the forward closure. The tool is air-powered and is positioned by manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____				CONTRACT YEAR 19____			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Containers, Actuator Storage	PART NO.	SPECIFICATION NO.															
			DESIGN SHEET NO.															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY 18																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.8	CONTRACTOR WANL	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>Actuator storage containers are provided for storage of individual actuators during the remote disassembly. Each container is a modified standard 5 gallon can and contains a neoprene covered frame to support the actuator. The closure tabs on the lid have been removed and four toggle type suitcase latches provide a dust tight enclosure with the lid installed. Bails are provided for remote manipulator handling.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Tools, Actuator Disassembly		PART NO.	SPECIFICATION NO														
INTERFACING PART NO.		INTERFACING PART TITLE		DESIGN SHEET NO														
PROGRAM PROVISIONED FOR Reactor Ground Test		RAS REFERENCE FUNCTION NUMBER (S) 1.3.3.8	CONTRACTOR WANL		PAGE REVISION DATE													
USE CATEGORY																		
DEVELOPMENT ☒		PRE-QUALIFICATION ☒		QUALIFICATION ☒														
OPERATIONAL ☐																		
TECHNICAL DESCRIPTION																		
<p>The actuator disassembly tools are used to remotely disassemble an actuator into its component parts. The tools consist of miscellaneous positioning fixtures and pneumatic wrenches. All tools are positioned by manipulator.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing Television System Equipment	PART NO	SPECIFICATION NO															
			DESIGN SHEET NO															
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1,3,5	CONTRACTOR ANSC	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div align="center">☒</div>	PRE-QUALIFICATION <div align="center">☒</div>	QUALIFICATION <div align="center">☒</div>	OPERATIONAL <div align="center">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The existing unit is a closed loop, remotely operated television system for use in the MAD facility. The system provides conventional monitors and close-up images of irradiated assemblies and components. The system allows an operator to patch a television camera circuit to a television controller and monitor located at any one of the operating stations.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE																		

NERVA TSE/AGE PROVISIONING LIST AND SCHEDULES

PROV NO.	EQUIPMENT TITLE Existing Photographic Processing Equipment	PART NO.	SPECIFICATION NO.															
		DESIGN SHEET NO.																
INTERFACING PART NO.	INTERFACING PART TITLE	END USE SITE NRDS																
		QUANTITY																
PROGRAM PROVIDED FOR Reactor Ground Test	RAS REFERENCE FUNCTION NUMBER (S) 1.3.5	CONTRACTOR	PAGE REVISION DATE															
USE CATEGORY																		
DEVELOPMENT <div style="text-align: right;">☒</div>	PRE-QUALIFICATION <div style="text-align: right;">☒</div>	QUALIFICATION <div style="text-align: right;">☒</div>	OPERATIONAL <div style="text-align: right;">☐</div>															
TECHNICAL DESCRIPTION																		
<p>The existing photographic processing equipment is used to process film from all photographic systems used in disassembly and post-operative examination.</p>																		
FUNCTION	PER CENT COMPLETE		CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__				CONTRACT YEAR 19__			
	LAST REPT	CURR REPT	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR	1st QTR	2nd QTR	3rd QTR	4th QTR
SPECIFICATION OR DESIGN SHEET																		
SPECIFICATION OR DESIGN SHEET APPROVAL																		
DESIGN																		
DESIGN APPROVAL																		
FABRICATION																		
ACCEPTANCE TEST (PLANT)																		
DELIVER TO USE SITE																		
INSTALL AND CHECKOUT																		
ACCEPTANCE TEST (USE SITE)																		
ESTIMATED NEED DATE

TRANSPORT NSSM FROM WANL TO LAS VEGAS
RAS 5.2.9.2

TRANSPORT NSSM FROM LAS VEGAS TO NRDS
RAS 5.2.9.4.

RECEIVE, INSPECT AND DISPOSITION NUCLEAR SUBSYSTEM MODULE (NSSM)
RAS 4.1.2

RECEIVE, INSPECT, AND DISPOSITION NOZZLE AND ASSEMBLY HARDWARE
RAS 4.1.3

INSTALL NSSM ON TEST CAR
RAS 4.2.1

R-1

INSTALL NSSM ON TEST CAR
RAS 4.2.1

R-2 through R-5

3-5

INSTALL NOZZLE TO NSSM

RAS 4.2.4

TRANSPORT TEST ASSEMBLY (MAD TO TCC)

RAS 3.1.2

INSTALL NOZZLE COVER
RAS 1.2.2

TRANSFER TEST ASSEMBLY (TCC TO MAD)
RAS 1.2.3

R-1

DISENGAGE ALL CONNECTIONS BETWEEN TEST ARTICLE AND TEST CAR
RAS 1.3.2.1

REMOVE TEST ARTICLE FROM TEST CAR
RAS 1.3.2.2

REMOVE NOZZLE
RAS 1.3.3.1

R-2 thru R-5

REMOVE FWD. CLOSURE/CONTROL SHAFT ASSEMBLY
RAS 1.3.3.3

REMOVE REACTOR FROM PRESSURE VESSEL
RAS 1.3.3.4

REMOVE SUPPORT DOME AND CENTRAL SHIELDS
RAS 1.3.3.5.2

Peripheral Shield

Handling Fixture,
Peripheral Shield

Reactor

Stand, Reactor
Disassembly

REMOVE PERIPHERAL SHIELDS
RAS 1.3.3.5.3

REMOVE CORE ASSEMBLY
RAS 1.3.3.5.8

REMOVE SUPPORT PLATE/PLENA
RAS 1.3.3.5.9.3

REMOVE CLUSTERS
RAS 1.3.3.5.9.5

REMOVE CONTROL DRUMS
RAS 1.3.3.5.10.1

DISASSEMBLE FWD CLOSURE/CONTROL SHAFT ASSEMBLY
RAS 1.3.3.7

DISASSEMBLE FORWARD CLOSURE AND ACTUATORS
RAS 1.3.3.8

Astronuclear
Laboratory

	TITLE Test Support Equipment/Aerospace Ground Equipment Plan	
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