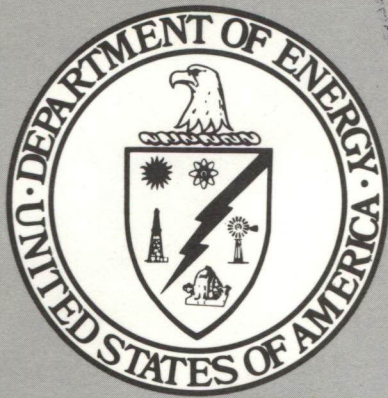


Dr. 2453

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COO-4057-13(Vol. 3)

SCREENING EVALUATION, VOLUME 3
APPENDIX A. EQUIPMENT LIST

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November 1979

Work Performed Under Contract No. EN-77-C-02-4057

United Engineers & Constructors, Inc.
Philadelphia, Pennsylvania

TECHNICAL INFORMATION CENTER
UNITED STATES DEPARTMENT OF ENERGY

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GAS REACTOR INTERNATIONAL COOPERATIVE PROGRAM

PEBBLE BED REACTOR PLANT

SCREENING EVALUATION VOLUME 3 APPENDIX A. EQUIPMENT LIST

Prepared By
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For

GENERAL ELECTRIC

ADVANCED REACTOR SYSTEMS DEPARTMENT
310 DeGUIGNE DRIVE
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November 1979

PS-0555

Prepared for
The U.S. Department of Energy
Contract No. EN-77-C-02-4057

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ABSTRACT

This report consists of three volumes which describe the design concepts and screening evaluation for a 3000 MW_t Pebble Bed Reactor Multiplex Plant (PBR-MX). The Multiplex plant produces both electricity and transportable chemical energy via the thermochemical pipeline (TCP). The evaluation was limited to a direct cycle plant which has the steam generators and steam reformers in the primary circuit. Volume 1 reports the overall plant and reactor system and was prepared by the General Electric Company. Core scoping studies were performed which evaluated the effects of annular and cylindrical core configurations, radial blanket zones, burnup, and ball heavy metal loadings. The reactor system, including the PCRV, was investigated for both the annular and cylindrical core configurations.

Volume 2 describes the conceptual balance-of-plant (BOP) design and was prepared by United Engineers and Constructors, Inc. of Philadelphia, Pennsylvania. The major emphasis of the BOP study was a preliminary design of an overall plant to provide a basis for future studies. There were no optimization or trade-off studies performed.

Volume 3 is an Appendix containing the equipment list for the plant and was also prepared by United Engineers and Constructors, Inc. It tabulates the major components of the plant and describes each in terms of quantity, type, orientation, etc., to provide a basis for cost estimation.

APPENDIX A - EQUIPMENT LIST

This Appendix describes the major components of the 3000 Mwt Gas Cooled Pebble Bed Reactor dual purpose plant CONCEPTUAL design developed for this study. Each of these are described in terms of quantities, type, orientation, capacity or flow, design pressures and temperatures, etc., in sufficient detail to permit preparation of a cost estimate at some future date.

As a convenience, the components are listed in accordance with an expanded AEC code-of-accounts (USAEC Report NUS-531), which will permit correlation and cross-referencing with a detailed cost estimate at some future date.

In order to maintain consistency for the various systems, nine sub-account headings are used to group similar components or items:

- o Rotating machinery
- o Heat transfer equipment
- o Tanks and pressure vessels
- o Purification and filtration equipment
- o Piping or ductwork
- o Valves or dampers
- o Piping - miscellaneous items
- o Instrumentation and control
- o Foundations/skids

The model of the Equipment List developed for the PBR only lists the major components of the plant for this CONCEPTUAL study. It was prepared with United Engineer's proprietary computer code PEGASUS, and has been stored in magnetic tape for prompt retrieval. Should a follow-on study be authorized

involving a cost estimate for the plant, the entire model can be readily accessed and can be expanded to include detailed material listings for piping, valves, concrete, rebar, structural, etc., for that estimate.

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
20	LAND AND LAND RIGHTS	GAA				
21	STRUCTURES & IMPROVEMENTS					
211.	YARDWORK		356211			
				01	0	YARDWORK INCLUDES CLEARING, GRUBBING,
				02	0	STRIPPING OF TOP SOIL, PARKING AREAS,
				03	0	ROUGH GRADING, SETTLING BASINS, YARD
				04	0	DRAINAGE SYSTEM, SANITARY SEWERAGE SYS-
				05	0	TEM, FENCING, GATE HOUSE AND ROADWAY
				06	0	AND YARD LIGHTING ALL EXTERIOR TO THE
				07	0	MAIN PLANT STRUCTURES. IT IS ASSUMED
				08	0	THAT 5 MILES OF SECONDARY ROAD NEEDING
				09	0	NO FURTHER IMPROVEMENTS CONNECTS TO A
				10	0	STATE HIGHWAY. ROADS IN THE SITE AREA
				11	0	ARE CONSIDERED WITH THE YARDWORK. RAIL
				12	0	ROAD ACCESS IS PROVIDED BY SITE SPURS
				13	0	AND A 5 MILE SPUR WHICH INTERSECTS THE
				14	0	MAIN TRACK. EARTH EXCAVATION, BACKFILL,
				15	0	AND DEWATERING FOR THE MAIN PLANT
				16	0	STRUCTURES ARE INCLUDED WITH THE STRUC-
				17	0	TURE ASSOCIATED YARDWORK. CONCRETE FILL
				18	0	IS PROVIDED UNDER THE MAIN PLANT STRUC-
				19	0	TURES TO FOUND STRUCTURES ON COMMON
				20	0	SOIL STRATA AND REDUCE DIFFERENTIAL
				21	0	SETTLEMENT.
211.1	GENERAL YARDWORK					
211.11	GENERAL CUT + FILL					
211.111	CUT + FILL BEYOND OPEN CUT	GBB				
211.112	CLEARING + GRUBBING	GBA				
211.113	FINE GRADING	GBC				
211.114	LANDSCAPING	GBD				
211.12	ROADS, WALKS + PARKING ARE					
211.121	SUBGRADE PREPARATION	GJB1				
211.122	ON-SITE ROADS+PARKING AREA					
211.1221	ROADS-ASPHALT	GJB3				

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EQUIPMENT LIST - REPORT 2

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MODEL 356 - 0000 MWE/3000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
211.1222	PARKING AREAS-ASPHALT	GJB3				
211.1223	CURBS-CONCRETE	GECS				
211.123	WALKS-CONCRETE	GECS				
211.14	FENCING + GATES					
211.141	PERMANENT FENCE	GJC				
211.142	GATE HOUSE	GZ				
211.15	SANITARY SEWER FACILITY					
211.151	SEWAGE TRTMT FACILITY	MGA1				
211.152	SANITARY PIPING	MGB3				
211.1521	2 IN + SMALLER	MBCX				
211.1522	2.5 IN + LARGER	MBDX				
211.15221	CI BELL + SPIGOT/NNS	MGB3				
211.153	OIL SEPARATORS	MGA2				
211.16	YARD DRAINAGE STORM SEWERS					
211.161	DRAINS	MBE5				
211.162	PIPING	MBE3				
211.1621	2 IN + SMALLER	MBCX				
211.1622	2.5 IN + LARGER					
211.16221	GALV/NNS	MBD31				
211.17	ROADWAY+YARD LIGHTING	EBA				
211.19	SETTLING BASINS					
211.191	EARTH EXCAVATION	GCA11				
211.192	ROCK EXCAVATION	GCA3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
211.193	BACKFILL	GCC1				
211.195	FORMWORK	GEA21				
211.196	REINF. STEEL	GEB11				
211.197	CONCRETE	GEC21				
211.198	SHEET PILING	GCD1				
211.199	RIP-RAP (12 IN. THICK)	GCC3				
211.4	RAILROADS					
211.41	CUT + FILL	GBB				
211.42	GRADING	GBC				
211.43	TRACK (BALLAST,TIES,RAILS)	GJA1				
211.45	SWITCHES+BUMPERS					
211.451	TURNOUTS (NO. 8)	GJA2				
211.452	BUMPERS	GJA3				
211.46	RIP RAP (24 IN. THICK)	GCC3				
211.7	STRUCTURE ASSOCIATED YDWK					
211.71	CUT + FILL					
211.711	OPEN CUT					
211.7111	DEWATERING	GCB				
211.7112	EARTH EXCAVATION	GCA12				
211.7113	ROCK EXCAVATION	GCA3				
211.712	FILL + BKFILL (PLACE/COMP)					
211.7121	CATEGORY I FILL	GCC2				
211.7122	NON-CATEGORY I FILL	GCC11				

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EQUIPMENT LIST - REPORT 2

MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
211.7123	AREAL FILL	GCC1				
211.7124	CONCRETE FILL	GEC11				
212.	REACTOR CONTAINMENT BLDG		356212	01	0	SEISMIC CATEGORY I REINFORCED CONCRETE
				02	0	STEEL LINED STRUCTURE CONSISTING OF A
				03	3	MAT, CYLINDER AND DOME. THE 14 FT THICK
				04	3	MAT SUPPORTS THE 171 FT-0 IN. I.D.
				05	0	CYLINDER WITH 4 FT-6 IN. THICK WALLS AND
				06	3	THE 85 FT-6 IN. INSIDE RADIUS, 3 FT-6 IN.
				07	3	THICK HEMISPHERICAL DOME.
				08	3	THE HEIGHT OF THE CYLINDER FROM
				09	0	THE TOP OF THE BASE MAT TO THE
				10	3	SPRINGLINE IS 173 FT 2 IN. THE HEIGHT
				11	0	OF THE STRUCTURE FROM THE TOP OF THE
				12	3	BASE MAT TO THE TOP OF THE DOME IS 262
				13	3	FT-8 IN. THE MAT SUPPORTS THE INTERNAL
				14	3	STRUCTURES CONSISTING OF A 3 FT THICK
				15	3	FILL MAT; A 120 FT-0 IN INSIDE DIAMETER
				151	3	8 FT THICK CYLINDRICAL RING
				16	3	WALL AND 40 FT-0 IN. DIAMETER CENTER
				17	0	CORE SUPPORTING THE PCRV; AND
				18	0	STRUCTURAL STEEL SUPPORTING PIPING,
				19	0	ELECTRICAL, HVAC AND OTHER MAJOR
				20	0	EQUIPMENT. THE POLAR CRANE IS SUPPORTED
				21	0	BY THE CYLINDRICAL WALL. THE GROSS
			356212A	01	3	VOLUME IS 5,283,400 CU FT. ABOVE THE
				02	3	FILL MAT.
212.1	BUILDING STRUCTURE					
212.11	EXCAVATION WORK					
212.111	EARTH EXCAVATION					
212.112	ROCK EXCAVATION					
212.113	CONCRETE FILL					
212.114	FILL + BACKFILL					
212.115	DEWATERING					
212.13	SUBSTRUCTURE CONCRETE					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.131	FORMWORK	GEA21				
212.132	REINF. STEEL	GEB11				
212.133	CONCRETE	GEC21				
212.135	FLOOR FINISH	GEE2				
212.136	WATERPROOFING	GEF				
212.137	CADWELDS	GEB2				
212.138	CONSTRUCTION JOINTS	GEG				
212.139	WELDED WIRE FABRIC	GEB3				
212.14	SUPERSTRUCTURE					
212.141	CONCRETE WORK					
212.1411	CONTAINMENT SHELL					
212.14111	FORMWORK	GEA24				
212.14112	REINFORCING STEEL	GEB15				
212.14113	CONCRETE	GEC25				
212.14114	EMBEDDED STEEL	GED2				
212.14115	RUBBING SURFACES	GEE1				
212.14116	WATERPROOFING	GEF				
212.14117	CADWELDS	GEB2				
212.14118	CONSTRUCTION JOINTS	GEG				
212.1412	CONTAINMENT DOME					
212.14121	FORMWORK	GEA25				
212.14122	REINF. STEEL	GEB16				
212.14123	CONCRETE	GEC25				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.14124	EMBEDDED STEEL	GED2				
212.14125	RUBBING SURFACES	GEE1				
212.14126	WATERPROOFING	GEFX				
212.14127	CADWELDS	GEB2				
212.14128	CONSTRUCTION JOINTS	GEG				
212.1413	INTERIOR CONCRETE					
212.14131	FORMWORK	GEA26				
212.141311	FORMWORK-WOOD	GEA2				
212.141312	FORMWORK-METAL	GEA1				
212.14132	REINFORCING STEEL	GEB17				
212.14133	CONCRETE	GEC2				
212.141331	6500 PSI CONCRETE	GEC27				
212.141332	3000 PSI CONCRETE	GEC26				
212.14134	EMBEDDED STEEL	GED2				
212.14135	RUBBING SURFACES	GEE1				
212.14136	FLOOR FINISH	GEE2				
212.14137	CADWELDS	GEB2				
212.14138	CONSTRUCTION JOINTS	GEG				
212.142	STRUCTURAL + MISC. STEEL					
212.1421	STRUCTURAL STEEL	GFA				
212.1422	MISC. FRAMES, ETC.	GFB4				
212.1423	FLOOR GRATING (GALV)	GFC1				
212.1424	STAIR TREADS	GFB2				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO.	DESCRIPTION
212.1425	HANDRAIL	GFB1			
212.146	CONTAINMENT LINER				
212.1461	LINER PLATE, STFNRS, PENET	GIA			
212.149	PAINTING				
212.1491	CONCRETE	GGF1			
212.1492	STEELWORK	GGF2			
212.1493	HANDRAILS	GGF6			
212.1494	LINER PLATE	GGF21			
212.2	BUILDING SERVICES				
212.21	PLUMBING + DRAINS				
212.211	ROOF DRAINS + PIPING				
212.2111	DRAINS	MDA1			
212.2115	PIPING				
212.21152	2.5 IN + LARGER				
212.211521	GALV/NNS	MBD3			
212.212	FLOOR DRAINS + PIPING				
212.2121	DRAINS	MDB1			
212.2125	PIPING	MBXX			
212.22	HEATING, VENT + AIR COND				
212.221	CONTAINMENT PURGE SYSTEM				
212.2215	PIPING + DUCTWORK				
212.22151	2 IN + SMALLER	MBAX			
212.22152	2.5 IN + LARGER				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF.	LINE NO.	LEVEL NO.	DESCRIPTION
212.22153	DUCTWORK	MFQ7				
212.2216	VALVES + DAMPERS					
212.22166	BUTTERFLY	MCA6				
212.22169	SPECIAL VALVES + DAMPERS					
212.221691	INTAKE LOUVERS	MFQ6				
212.2218	INSTRUMENTATION + CONTROLS	MID1				
212.2219	SKIDS + FOUNDATIONS					
212.22191	AIR SUPPLY UNIT + MOTOR	MFQ1				
212.221911	AIR SUPPLY UNIT	MFQ2	356212221911	01	0	QUANTITY - 1
				02	0	TYPE - MAKE-UP AIR SUPPLY UNIT
				03	0	FAN SECTION:
				04	0	QUANTITY - 2 X 100 PCT
				05	0	TYPE - CENTRIFUGAL
				06	0	FLOW RATE - 18,000 CFM
				07	0	STATIC PRESS - 4 IN
				08	0	PREHEAT COIL:
				09	0	HEAT CAPACITY - 1296 MBH
				10	0	STEAM FLOW - 1426 LBS/HR
				11	0	STEAM PRESS - 50 PSIG
				12	0	AIR IN/OUT - 0 F / 60 F
				13	0	FILTER SECTION:
				14	0	TYPE - MANUAL ROLL FILTER
				15	0	MATERIAL -
				16	0	DIMENSIONS - 8 FT WIDE X 6 FT HIGH
				17	0	EFFICIENCY -
				18	0	FILTER PLENUM:
				19	0	SIZE - 20FT X 12FT X 8FT H
				20	0	MATERIAL - CARBON STEEL
				21	0	SAFETY CLASS - NNS
				22	0	SEISMIC CAT. - 1
212.221912	AIR SUPPLY UNIT MOTOR	EHDX	356212221912	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 30 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.22192	AIR EXHAUST UNIT + MOTOR	MFQ1				
212.221921	AIR EXHAUST UNIT	MFQ2	356212221921	01	0	QUANTITY - 1
				02	0	TYPE - FAN + FILTERS
				03	0	FAN SECTION:
				04	0	QUANTITY - 2 X 100 PCT
				05	0	TYPE - CENTRIFUGAL
				06	0	FLOW RATE - 20,000 CFM (EACH)
				07	0	STATIC PRESS - 8 IN
				08	0	PREFILTER:
				09	0	QUANTITY - 1 BANK OF 21 FILTERS
				10	0	MATERIAL - FIBERGLASS
				11	0	SIZE - 24 IN X 24 IN X 2 IN
				12	0	FLOW/FILTER - 1000 CFM
				13	0	EFFICIENCY - 30 PCT
				14	0	STATIC DP -
				15	0	HEPA FILTER:
				16	0	QUANTITY - 2 BANKS, 21 FILT/BANK
				17	0	MATERIAL - GLASS FILTERING MEDIA
				18	0	S.S. FRAMES, ASBESTOS
				19	0	SEPARATORS
				20	0	SIZE - 24 IN X 24 IN X 11.75 IN
				21	0	FLOW/FILTER - 1000 CFM
				22	0	EFFICIENCY - 99.97 PCT
			356212321921	23	0	STATIC DP - 1 IN. WTR (CLEAN)
				24	0	CHARCOAL FILTER:
				25	0	QUANTITY - 21
				26	0	TYPE - TRAY (3 PER FILTER)
				27	0	MATERIAL - ACTIVATED CHARCOAL
				271	0	FILTER, S.S. FRAME
				28	0	BULK DENSITY - 31 LB/CU FT (42 LBS
				281	0	PER TRAY)
				29	0	BED DEPTH - 2 IN
				30	0	FLOW/FILTER - 1000 CFM (333-1/3 CFM
				301	0	PER TRAY)
				31	0	EFFICIENCY: 99.5 PCT - METHYL IOD.
				32	0	99.9 PCT - ELEMENTL IOD.
				33	0	RESIDENCE TIME - 0.25 SECONDS
				34	0	FILTER PLENUM:
				35	0	SIZE - 36 FT X 16 FT X 9 FT - 6 IN
				36	0	MATERIAL - CARBON STEEL
				37	0	SAFETY CLASS - NNS
				38	0	SEISMIC CAT. - I
				39	0	DESIGN CODE -

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.221922	AIR EXHAUST UNIT MOTOR	EMDX	356212221922	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE -
				03	0	HORSEPOWER - 50 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
212.222	AIR PURIFICATION + CLEANUP		356212222	01	0	THREE (3) 50 PCT. CAPACITY AIR PURIFI-
				02	0	CATION AND CLEANUP AIR HANDLING UNITS
				03	0	ARE LOCATED IN EACH CONTAINMENT BLDG.
				04	0	EACH CLEANUP UNIT IS COMPLETE WITH IN-
				05	0	LET DAMPERS, ROUGHING FILTERS, MOISTURE
				06	0	SEPARATOR, TWO (2) SETS OF HEPA FIL-
				07	0	TERS, CHARCOAL FILTER BANK PROVIDED
				08	0	WITH A TEMPERATURE DETECTOR AND WATER
				09	0	SPRAY FIRE PROTECTION SYSTEM AND A
				10	0	SUPPLY AIR FAN. SAFETY CLASS 2 DESIGNED
				11	0	TO SEISMIC CATEGORY I REQUIREMENTS AND
				12	0	REGULATORY GUIDE 1.52 GUIDELINES.
212.2225	PIPING + DUCTWORK					
212.22253	DUCTWORK	MFQ7	35621222253	01	0	INCLUDED IN ACCOUNT NO. 212.22353
212.2226	VALVES + DAMPERS					
212.22266	BUTTERFLY DAMPER	MFQ5	35621222266	01	0	QUANTITY - 3
				02	0	TYPE - MOTOR-OPER. BUTTERFLY
				03	0	DIMENSIONS - 36 IN. DIAMETER
				04	0	FLOW RATE -
				05	0	VELOCITY -
				06	0	
				07	0	COST INCLUDED IN ACCOUNT NO. 212.22291
212.22269	SPECIAL VALVES + DAMPERS					
212.222691	INLET SHUTOFF DAMPER	MFQ5	356212222691	01	0	QUANTITY - 3
				02	0	TYPE - MULTIBLADE, MOTOR-OPER.
				03	0	DIMENSIONS - 7 FT X 3 FT
				04	0	FLOW RATE -
				05	0	VELOCITY -
				06	0	
				07	0	COST INCLUDED IN ACCOUNT NO. 212.22291
212.2228	INSTRUMENTATION + CONTROLS	MID1	3562122228	01	0	ALLOWANCE

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

212.2229 SKIDS + FOUNDATIONS

212.22291 CLEANUP FILTER UNIT + MTR MFQ3

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.222911	CLEANUP FILTER UNIT	MFQ4	35621222911	01	0	QUANTITY - 3 X 50 PCT
				02	0	TYPE -
				03	0	FAN SECTION:
				04	0	QUANTITY - 1
				05	0	TYPE - CENTRIFUGAL, HIGH TEMP CONSTRUCTION (500 F)
				06	0	
				07	0	FLOW RATE - 10,000 CFM
				08	0	STATIC PRESS - 16 IN. @ 70 F
				09	0	DEMISTER BANK:
				10	0	QUANTITY - 1 BANK, 12 CELLS
				11	0	MATERIAL - S.S. WIRE MESH FILTER MEDIA, S.S. FRAMES
				12	0	
				13	0	SIZE - 24 IN X 24 IN X 4 IN
				14	0	ARRANGEMENT - 4 W X 3 H
				15	0	EFFICIENCY - 99 PCT ON MOISTURE DROPLETS IN AIR
				16	0	
				17	0	HEPA FILTER:
				18	0	QUANTITY - 2 FILTER BANKS, 12 FILTERS/BANK
				19	0	
				20	0	MATERIAL - FIBERGLASS, SS FRAME, ASBESTOS SEPARATORS
				21	0	
				22	0	SIZE - 24 IN X 24 IN X 11.75 IN
			356212322911	23	0	ARRANGEMENT - 4 W X 3 H
				24	0	EFFICIENCY - 99.97 PCT
				25	0	CHARCOAL FILTER:
				26	0	QUANTITY - 1 BANK, 12 FILTERS
				27	0	TYPE - TRAY (3 TRAYS/FILTER)
				28	0	MATERIAL - ACTIVATED CARBON
				29	0	FILTER, SS FRAME
				30	0	ARRANGEMENT - 4 W X 3 H
				31	0	BULK DENSITY - 31 LB/CU FT
				32	0	BED DEPTH - 2 IN
				33	0	EFFICIENCY: 99.5 PCT - METHYL IOD. 99.9 PCT - ELEM TL IOD.
				34	0	
				35	0	RESIDENCE TIME - 0.25 SEC
				36	0	FILTER PLENUM:
				37	0	SIZE - 36 FT X 11 FT X 9 FT - 6 IN H
				38	0	MATERIAL - CARBON STEEL (10 GA.)
				39	0	SAFETY CLASS - 2
				40	0	SEISMIC CAT. - 1
				41	0	DESIGN CODE -
				42	0	
				43	0	EACH UNIT ALSO INCLUDES A CHARCOAL BED
				44	0	WATER SPRAY SYSTEM FOR FIRE PROTECTION.

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.222912	CLEANUP AIR FILTR UNIT MTR	EHXX	356212222912	01	0	QUANTITY - 3
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 50 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
212.223	CONT. RECIRC COOLING SYS					
212.2231	ROTATING MACHINERY					
212.22311	CONT CHILLERS + MOTOR	MFR5				
212.223111	CONT CHILLER	MFR6	356212223111	01	0	QUANTITY - 2 X 50 PCT
				02	0	TYPE - HERMETIC CENTRIFUGAL
				03	0	COOLING CAP'Y - 300 TONS EACH
				04	0	POWER RATING - 225 KW
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
				06	0	CHILLED WATER:
				07	0	FLOW RATE - 600 GPM
				08	0	TEMP IN/OUT - 57 F / 45 F
				09	0	CONDENSER WATER:
				10	0	FLOW RATE - 865 GPM
				11	0	TEMP IN/OUT - 95 F / 105 F
				12	0	SAFETY CLASS - NNS
				13	0	SEISMIC CAT. - I
				14	0	DESIGN CODE -
212.223112	CONT CHILLER MOTOR	EHXX	356212223112	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER -
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
212.22312	CHILLED WATER PUMP + MOTOR	MFA1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
212.223121	CHILLED WATER PUMP	MFA2	356212223121	01	0	QUANTITY -	4 X 50 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	
				04	0	FLOW RATE -	300 GPM PER PUMP
				05	0	SPEED -	
				06	0	TDH -	100 FT
				07	0	BHP -	20 HP
				08	0	NPSH -	
				09	0	EFFICIENCY -	
				10	0	DESIGN PRESS -	
				11	0	DESIGN TEMP -	
				12	0	MATERIAL -	
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	I
				15	0	DESIGN CODE -	
212.223122	CHILLED WATER PUMP MOTOR	EHDX	356212223122	01	0	QUANTITY -	4
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER -	20 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
212.2233	TANKS + PRESSURE VESSELS						
212.22331	COMPRESSION TANKS	MFC1	35621222331	01	0	QUANTITY -	2
				02	0	ORIENTATION -	VERTICAL
				03	0	DIMENSIONS -	30 IN O.D. X 60 IN HIGH
				04	0	VOLUME -	166 GAL
				05	0	DESIGN PRESS -	
				06	0	DESIGN TEMP -	
				07	0	MATERIAL -	
				08	0	SAFETY CLASS -	NNS
				09	0	SEISMIC CAT. -	
				10	0	DESIGN CODE -	ASME VIII

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
212.22332	AIR SEPARATORS	MFC1	35621222332	01	0	QUANTITY - 2
				02	0	TYPE - FLANGED WITH INTEGRAL
				03	0	STRAINER
				04	0	DIMENSIONS - 6 IN O.D.
				05	0	CAPACITY - 300 GPM
				06	0	DESIGN PRESS -
				07	0	DESIGN TEMP -
				08	0	MATERIAL -
				09	0	SAFETY CLASS -
				10	0	SEISMIC CAT. -
				11	0	DESIGN CODE -
212.2235	PIPING + DUCTWORK	MBXX				
212.22351	2 IN + SMALLER					
212.223511	CS/NNS	MBC1				
212.22352	2.5 IN + LARGER					
212.223521	CS/NNS	MBD1				
212.22353	DUCTWORK	MFQ7				
212.2236	VALVES + DAMPERS	MCA				
212.2237	PIPING-- MISC. ITEMS					
212.22371	HANGERS + SUPPORTS	MAA				
212.22372	INSULATION	MHA2				
212.2238	INSTRUMENTATION + CONTROLS	MID1	3562122238	01	0	ALLOWANCE
212.2239	SKIDS + FOUNDATIONS					
212.22391	FAN/COIL COOL. UNITS + MTR	MFR3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
212.223911	FAN/COIL COOL. UNIT	MFR4	356212223911	01	0	QUANTITY -	6 X 20 PCT
				02	0	TYPE -	FAN/COIL AIR COOLER
				03	0	COOLING CAP. -	816 MBH
				04	0	CHILLED WATER:	
				05	0	FLOW RATE -	102 GPM
				06	0	TEMP IN/OUT -	48 F / 64 F
				07	0	DESIGN PRESS -	
				08	0	FAN:	
				09	0	TYPE -	CENTRIFUGAL
				10	0	FLOW RATE -	45,200 CFM
				11	0	STATIC PRESS -	4 IN.
				12	0	COOLING COIL:	
				13	0	SIZE -	8FT 2-1/2 IN. WIDE X
				131	0		12FT 5-3/4 IN. HIGH
				14	0	DEPTH -	8 ROWS DEEP
				15	0	MATERIAL -	
				16	0	PLENUM:	
				17	0	SIZE -	20 FT LG 9FT-6 IN W X
				171	0		13 FT-6 IN H
				18	0	MATERIAL -	CARBON STEEL
				19	0	SAFETY CLASS	3
				20	0	SEISMIC CAT.	I
212.223912	FAN/COIL COOL. UNIT MOTOR	ENDX	356212223912	01	0	QUANTITY -	6
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER -	50 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
212.224	CONT. STANDBY HEATING SYS						
212.2242	HEAT TRANSFER EQUIPMENT						
212.22421	UNIT HEATERS + MOTOR	MFR1					

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

212.224211	UNIT HEATERS	MFR2	356212224211	01	0	QUANTITY - 12
				02	0	TYPE - STEAM UNIT HEATERS
				03	0	CAPACITY - 252,000 BTU/HR
				04	0	HEATING COIL:
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
				06	0	STEAM FLOW - 275 LBS/HR
				07	0	STEAM PRESS - 50 PSIG
				08	0	AIR TEMP RISE -
				09	0	FAN:
				10	0	TYPE -
				11	0	FLOW RATE -
				12	0	STATIC PRESS -
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE (BUT SEISMICALLY SUPPORTED)
				141	0	
				15	0	DESIGN CODE -

212.224212	UNIT HEATER MOTOR	EHDX	356212224212	01	0	QUANTITY - 12
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - .5 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ

212.2245	PIPING					
212.22451	2 IN + SMALLER	MBC				
212.22452	2.5 IN + LARGER	MBDX				
212.2248	INSTRUMENTATION + CONTROLS	MID1				
212.24	LIGHTING + SERVICE POWER	EBBX				
212.25	ELEVATOR	GHA1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
213.	TURBINE ROOM + HEATER BAY		356213	01	0	NON SEISMIC CATEGORY I BUILDING
				02	0	SUPPORTED ON REINFORCED CONCRETE SPREAD
				03	0	FOOTINGS AND CONSISTING OF A STRUCTURAL
				04	0	STEEL FRAME WITH INSULATED METAL SIDING
				05	0	AND CONCRETE PLANK COVERED WITH
				06	0	REINFORCED CONCRETE SLAB AND A ROOFING
				07	0	MEMBRANE. FLOORS ARE REINFORCED
				08	0	CONCRETE AND STEEL GRATING SUPPORTED ON
				09	0	STEEL FRAMING. BUILDING DIMENSIONS ARE
				10	3	253 FT X 183 FT PLUS AN ATTACHED
				11	0	SWITCHGEAR AND BATTERY ROOM. THE
				12	3	BUILDING VOLUME IS 5,900,000 CU. FT.
				13	0	THE HIGH TUNED TANDOM TURBINE PEDESTALS
				14	0	ARE REINFORCED CONCRETE.

UCV

213.1	BUILDING STRUCTURE					
213.11	EXCAVATION WORK					
213.111	EARTH EXCAVATION		GCA1			
213.112	ROCK EXCAVATION		GCA3			
213.113	CONCRETE FILL		GEC1			
213.114	FILL + BACKFILL		GCC1			
213.115	DEWATERING		GCBX			
213.13	SUBSTRUCTURE CONCRETE					
213.131	FORMWORK		GEA21			
213.132	REINFORCING STEEL		GEB11			
213.133	CONCRETE		GEC21			
213.134	EMBEDDED STEEL		GED2			
213.135	FLOOR FINISH		GEE2			
213.136	WATERPROOFING		GEFX			
213.137	CONSTRUCTION JOINTS		GEG			

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
213.138	RUBBING CONCRETE SURFACE	GEE1				
213.139	WIRE FABRIC	GER3				
213.14	SUPERSTRUCTURE					
213.141	CONCRETE WORK					
213.1411	FORMWORK					
213.14111	FORMWORK-WOOD	GEA22				
213.14112	FORMWORK-METAL	GEA1				
213.1412	REINFORCING STEEL	GEB12				
213.1413	CONCRETE	GEC22				
213.1414	EMBEDDED STEEL	GED2				
213.1415	FLOOR FINISH	GEE2				
213.1416	WATERPROOFING	GEFX				
213.1417	RUBBING CONCRETE SURFACES	GEE1				
213.1418	CONSTRUCTION JOINTS	GEG				
213.142	STRUCTURAL + MISC. STEEL					
213.1421	STRUCTURAL STEEL	GFA				
213.1422	FLR+ PLATFORM SUPPORTS	GFB4				
213.1423	MISC. FRAMES, ETC.	GFB4				
213.1424	CHECKERED PLATE	GFC2				
213.1425	FLOOR GRATING (GALV)	GFC1				
213.1426	STAIR TREADS	GFB2				
213.1427	HANDRAIL	GFB1				
213.143	EXTERIOR WALLS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.1431	CONCRETE WALLS	GEC2				
213.1432	MASONRY WALLS	GGA3				
213.1433	METAL INSULATED SIDING	GGA1				
213.144	ROOF DECK					
213.1441	METAL ROOF DECK	GGB1				
213.1442	CONCRETE PLANK	GGB4				
213.1443	CONCRETE FILL	GEC23				
213.1444	REINFORCING STEEL	GEB13				
213.145	ROOFING + FLASHING					
213.1452	B.U. ROOF+FLASH (NO INSUL)	GGB3				
213.1453	ELASTOMERIC ROOFING	GGB5				
213.146	INTERIOR WALLS + PARTITION					
213.1461	CONCRETE WALLS	GEC2				
213.1462	CONCRETE BLOCK WALLS	GGA6				
213.1463	METAL PARTITIONS	GGE1				
213.147	DOORS + WINDOWS					
213.1471	ROLLING STEEL DOORS	GGD1				
213.1472	PERSONNEL DOORS	GGD2				
213.1473	SASH + GLAZING	GGC				
213.148	WALL, FLOOR+CEILING FINISH					
213.1484	CERAMIC TILE FLOOR	GGE3				
213.1485	CERAMIC TILE WALL FINISH	GGE3				
213.149	PAINTING					

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.1491	CONCRETE	GGF1				
213.1492	STEELWORK	GGF2				
213.1493	METAL DECK	GGF5				
213.1494	HANDRAIL	GGF6				
213.2	BUILDING SERVICES					
213.21	PLUMBING + DRAINS					
213.211	ROOF DRAINS + PIPING					
213.2111	DRAINS	MDA1				
213.2115	PIPING					
213.21152	2.5 IN + LARGER					
213.211521	GALV/NNS	MBD3				
213.212	FLOOR DRAINS + PIPING					
213.2121	DRAINS	MDB1				
213.2125	PIPING					
213.21251	2.0 IN + SMALLER					
213.212511	CS/NNS	MBC1				
213.21252	2.5 IN + LARGER					
213.212521	CS/NNS	MBD1				
213.213	PUMPS					
213.2131	DRAINAGE PUMP + MOTOR	MFA1				
213.21311	DRAINAGE PUMP	MFA2				
213.21312	DRAINAGE PUMP MOTOR	EHDX				
213.214	SANITARY DRAINS + PIPING	MGB3				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
213.2145	PIPING						
213.21451	2 IN + SMALLER						
213.214511	CS/NNS		MBC1				
213.21452	2.5 IN + LARGER						
213.214521	CI/NNS		MBD7				
213.22	HEATING, VENT, + AIR COND						
213.221	GENERAL BLDG VENTILATION						
213.2211	ROTATING MACHINERY						
213.22111	ROOF VENTILATORS + MOTORS		MF01				
213.221111	ROOF VENTILATOR		MF02	356213221111	01	0	QUANTITY - 18
					02	0	TYPE - AXIAL VANE
					03	0	FLOW RATE - 70000 CFM
					04	0	STATIC PRESS - 0.5 IN
					05	0	SPECIAL - HOOD CURB + M.O. DAMPER
					06	0	SAFETY CLASS - NNS
					07	0	SEISMIC CAT. - NONE
					08	0	DESIGN CODE -
213.221112	ROOF VENTILATOR MOTOR		EHDX	356213221112	01	0	QUANTITY - 18
					02	0	TYPE - AC INDUCTION
					03	0	HORSEPOWER - 15 HP
					04	0	SPEED -
					05	0	VOLTAGE - 460V, 3 PHASE, 60 HZ
213.2216	VALVES + DAMPERS						
213.22169	SPECIAL VALVES + DAMPERS						
213.221691	INTAKE LOUVERS		MF06	356213221691	01	0	QUANTITY - 18
					02	0	TYPE - MANUALLY OPERABLE
					03	0	DIMENSION - 25 FT WIDE X 8 FT HIGH
					04	0	FLOW -
					05	0	VELOCITY -
213.222	HEATER BAY VENTILATION						

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.2221	ROTATING MACHINERY					
213.22211	ROOF VENTILATOR + MOTOR	MFQ1				
213.222111	ROOF VENTILATOR	MFQ2	356213222111	01	0	QUANTITY - 2
				02	0	TYPE - AXIAL VANE
				03	0	FLOW RATE - 10000 CFM
				04	0	STATIC PRESS - 0.5 IN
				05	0	SPECIAL -
				06	0	SAFETY CLASS - NNS
				07	0	SEISMIC CAT. - NONE
				08	0	DESIGN CODE -
213.222112	ROOF VENTILATOR MOTOR	EHDX	356213222112	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 1.5 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460V, 3 PHASE, 60 HZ
213.223	GENERAL BLDG HEATING					
213.2232	HEAT TRANSFER EQUIPMENT					
213.22321	STEAM HEATER UNITS	MFR2	35621322321	01	0	QUANTITY - 24
				02	0	CAPACITY - 300 MBH
				03	0	STEAM PRESS - 50 PSIG
				04	0	STEAM CONSUMP - 330 LB/HR
				05	0	AIR FLOW -
				06	0	BLOWER HP - 1.5
				07	0	BLOWER VOLTS - 460V, 3 PHASE, 60 HZ
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
213.2235	PIPING					
213.22351	2 IN + SMALLER	MBCX				
213.22352	2.5 IN + LARGER	MBDX				
213.2236	VALVES	MCA				
213.22361	GATE	MCA1				
213.22362	CHECK	MCA2				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.2237	PIPING - MISC ITEMS					
213.22371	HANGERS	MAA				
213.22372	INSULATION	MHA2				
213.224	LUBE OIL RM VENTILATION					
213.2241	ROTATINGE MACHINERY					
213.22411	FAN + MOTOR	MFQ1				
213.224111	FAN	MFQ2	356213224111	01	0	QUANTITY - 1
				02	0	TYPE - AXIAL WALL FAN
				03	0	FLOW RATE - 4000 CFM
				04	0	STATIC PRESS - 0.5 IN
				05	0	SPECIAL - NONE
				06	0	SAFETY CLASS - NNS
				07	0	SEISMIC CAT. - NONE
				08	0	DESIGN CODE -
213.224112	MOTOR	EHEX	356213224112	01	0	QUANTITY - 1
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 1
				04	0	SPEED -
				05	0	VOLTAGE - 460V, 3 PHASE, 60 HZ
213.225	6900 V SWGR VENTILATION					
213.2252	HEAT TRANSFER EQUIPMENT					
213.22521	UNIT HEATERS - ELETRIC	MFR2	35621322521	01	0	QUANTITY - 5
				02	0	TYPE - ELECTRIC UNIT
				021	0	HEAT LOAD - 10 KW
				03	0	VOLTAGE - 460V, 3 PHASE, 60 HZ
				04	0	SAFETY CLASS -
				05	0	SEISMIC CAT. - NONE
				06	0	DESIGN CODE -
213.2256	VALVES + DAMPERS					
213.22569	SPECIAL VALVES + DAMPERS					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.225691	INTAKE LOUVER	MFQ6	356213225691	01	0	QUANTITY = 1
				02	0	TYPE = STATIONARY, WEATHERPROOF
				03	0	DIMENSIONS = 8 FT WIDE X 5 FT HIGH
				04	0	FLOW = 21000 CFM
				05	0	VELOCITY =
213.225692	RELIEF DAMPER	MFQ5				
213.2259	SKIDS + FOUNDATION					
213.22591	AIR SUPPLY UNIT + MOTOR	MFQ1				
213.225911	AIR SUPPLY UNIT	MFQ2	356213225911	01	0	QUANTITY = 1
				02	0	TYPE =
				03	0	FLOW RATE = 21000 CFM
				04	0	STATIC PRESS = 1 IN
				05	0	SPECIAL =
				06	0	SAFETY CLASS =
				07	0	SEISMIC CAT. =
				08	0	DESIGN CODE =
				09	0	MIXING BOX =
				10	0	O.A. + R.A.
				11	0	MOTOR OPERATED DAMPERS
				12	0	FILTER SECTION - FIBERGLASS, THROWAWAY FILTERS.
213.225912	AIR SUPPLY UNIT MOTOR	EHDX	356213225912	01	0	QUANTITY = 1
				02	0	TYPE = AC INDUCTION
				03	0	HORSEPOWER = 7.5 HP
				04	0	SPEED =
				05	0	VOLTAGE = 460V, 3 PHASE, 60 HZ
213.226	ELV MACH ROOM VENTILATION					
213.2261	ROTATING MACHINERY					
213.22611	FAN + MOTOR	MFQ1				

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MODEL 356 - 0000 MWE/3000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.226111	FAN	MFQ2	356213226111	01	0	QUANTITY - 1
				02	0	TYPE - AXIAL WALL
				03	0	FLOW RATE - 3000 CFM
				04	0	S.P. - 1 IN.
				05	0	SPECIAL - NONE
				06	0	SAFETY CLASS -
				07	0	SEISMIC CAT. - NONE
				08	0	DESIGN CODE -
				09	0	MIXING BOX - OA AND RA MOTOR OPERATED DAMPERS
				10	0	
				11	0	FILTER SECTION:
				12	0	TYPE - HIGH CAP'Y THROWAWAY
				13	0	MATERIAL - FIBERGLASS
				14	0	EFFICIENCY -
213.226112	FAN MOTOR	EHEX	356213226112	01	0	QUANTITY - 1
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 1.0 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
213.2266	VALVES + DAMPERS					
213.22669	SPECIAL VALVES + DAMPERS					
213.226691	DAMPER	MFQ5	356213226691	01	0	QUANTITY - 1
				02	0	TYPE - COUNTERBALANCED RELIEF
				03	0	DIMENSIONS - 24 IN X 12 IN
				04	0	FLOW - 1000 CFM
				05	0	VELOCITY -
213.227	DUCTWORK	MFQ7	356213227	01	0	NEGLECTIBLE
213.228	INSTRUMENTATION + CONTROLS	MID1	356213228	01	0	ALLOWANCE
213.23	PIPE PROTECTION		35621323	01	0	INCLUDED IN ACCOUNT 252.22
213.24	LIGHTING + SERVICE POWER	EBB				
213.25	ELEVATOR					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
213.251	ELEVATOR EQUIPMENT	GHA1	356213251	01	0	QUANTITY = 1
				02	0	TYPE = PASSENGER ELEVATOR
				021	0	RATED TO CARRY FREIGHT
				03	0	TRAVEL = 70 FT
				04	0	HOIST AREA = 8 FT X 10 FT
				05	0	SPEED = 125 FT/MIN
				06	0	RATED LOAD = 8000 LB
213.2511	ELEVATOR MOTOR	EHDX	3562132511	01	0	QUANTITY = 1
				02	0	TYPE = AC INDUCTION
				03	0	HORSEPOWER 30 HP
				04	0	SPEED =
				05	0	VOLTAGE = 460 V, 3 PHASE, 60 HZ
214.	SECURITY BUILDING		356214	01	3	NON-SEISMIC CATEGORY I BUILDING
				02	3	SUPPORTED ON CONCRETE SLAB AND
				03	3	CONSISTING OF REINFORCED CONCRETE WALLS
				04	3	AND ROOF. BUILDING DIMENSIONS ARE
				05	3	52 FT 6 IN WIDE X 63 FT LONG X 12 FT
				06	3	HIGH. WALLS AND ROOF ARE 2 FT 6 IN.
				07	3	THICK REINFORCED CONCRETE. THE
				08	3	BUILDING VOLUME IS APPROXIMATELY 28200
				09	3	CU FEET.
214.1	BUILDING STRUCTURE					
214.11	EXCAVATION WORK					
214.111	EARTH EXCAVATION	GCA12				
214.112	ROCK EXCAVATION	GCA3				
214.113	CONCRETE FILL	GEC1				
214.114	FILL & BACKFILL	GCC1				
214.115	DEWATERING	GCB				
214.13	SUBSTRUCTURE CONCRETE					
214.131	FORMWORK	GEA21				
214.132	REINFORCING STEEL	GEB11				
214.133	CONCRETE	GEC21				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
214.134	EMBEDDED STEEL	GED2				12345678901234567890123456789
214.135	FLOOR FINISH	GEE2				
214.136	WATERPROOFING	GEF				
214.137	CONSTRUCTURE JOINTS	GEG				
214.138	RUBBING CONCRETE SURFACE	GEE1				
214.139	WIRE FABRIC	GEB3				
214.14	SUPERSTRUCTURE					
214.141	CONCRETE WORK					
214.1411	FORMWORK					
214.14111	FORMWORK-WOOD	GEA22				
214.14112	FORMWORK-METAL	GEA1				
214.1412	REINFORCING STEEL	GEB12				
214.1413	CONCRETE	GEC22				
214.1414	EMBEDDED STEEL	GED2				
214.1415	FLOOR FINISH	GEE2				
214.1416	WATERPROOFING	GEF				
214.1417	CONSTRUCTION JOINTS	GEG				
214.1418	RUBBING CONCRETE SURFACES	GEE1				
214.142	STRUCT. & MISC. STEEL	GFA				
214.143	EXTERIOR WALLS					
214.144	ROOF DECK	GGB				
214.145	ROOFING & FLASHING	GGE				
214.1452	B.U. ROOF. + FLASH (NO INSUL.)	GGB3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
214.147	DOORS	GGD				
214.148	WALL, FLOOR, & CEILING FINIS					
214.1481	VINYL TILE FLOOR	GGE2				
214.1482	SUSPENDE CEILING	GGE4				
214.149	PAINTING	GGF				
214.1492	STEELWORK (PAINTING)	GGF2				
214.2	BUILDING SERVICES	MFO				
214.21	PLUMBING & DRAINS					
214.22	HEATING, VENTILATION & AC	MFO				
214.24	LIGHTING & SERVICE POWER	EBB				
215.	REACTOR SERV FUEL HDLG BLG		356215			
				01	0	A SEISMIC CATEGORY I REINFORCED
				02	0	CONCRETE STRUCTURE SUPPORTED ON A 4' FT
				03	0	THICK MAT. THE LOWER EXTERIOR WALLS,
				04	0	INTERIOR WALLS AND INTERIOR SLABS ARE
				05	0	REINFORCED CONCRETE. THE EXTERIOR WALLS
				06	0	ARE A MINIMUM OF TWO FEET THICK. THE
				07	0	INTERIOR SLABS ARE CAST IN PLACE
				08	0	CONCRETE OVER METAL DECK AND SUPPORTED
				09	3	ON STEEL BEAM FRAMING, THE
				12	0	ROOF SLAB IS CONCRETE PLANK COVERED
				13	0	WITH A REINFORCED CONCRETE SLAB AND
				14	0	ROOFING MEMBRANE AND SUPPORTED ON STEEL
				15	3	FRAMING, DIMENSIONS OF THE BUILDING ARE
				16	3	APPROXIMATELY 133 FT X 150 FT. THE
				17	3	APPROXIMATE VOLUME IS 3,200,000 CU. FT.
215.1	BUILDING STRUCTURE					
215.11	EXCAVATION WORK					
215.111	EARTH EXCAVATION	GCA1				
215.112	ROCK EXCAVATION	GCA3				
215.113	CONCRETE FILL	GEC1				

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MODEL 356 = 0000 MWE/3000 MWT HTGR = MULTIPLEX GAS COOLED PEBBLE BED REACTOR COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
215.114	FILL + BACKFILL	GCC1				
215.115	DEWATERING	GCBX				
215.13	SUBSTRUCTURE CONCRETE					
215.131	FORMWORK	GEA21				
215.132	REINF. STEEL	GEB11				
215.133	CONCRETE	GEC21				
215.134	EMBEDDED STEEL	GED2				
215.135	FLOOR FINISH	GEE2				
215.137	CONSTRUCTION JOINTS	GEG				
215.138	RUBBING CONCRETE SURFACES	GEE1				
215.139	WIRE FABRIC					
215.14	SUPERSTRUCTURE					
215.141	CONCRETE WORK					
215.1411	FORMWORK					
215.14111	FORMWORK-WOOD	GEA22				
215.14112	FORMWORK-METAL	GEA1				
215.1412	REINF. STEEL	GEB12				
215.1413	CONCRETE	GEC22				
215.1414	EMBEDDED STEEL	GED2				
215.1415	FLOOR FINISH	GEE2				
215.1417	RUBBING CONCRETE SURFACE	GEE1				
215.1418	CONSTRUCTION JOINTS	GEG				
215.1419	REMOVABLE PLUGS	GEC4				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL	DESCRIPTION
			REF. NUMBER NO. NO.	12345678901234567890123456789
215.142	STRUCTURAL + MISC. STEEL			
215.1421	STRUCTURAL STEEL	GFA		
215.1422	FLOOR + PLATFORM SPTS.	GFB4		
215.1425	FLOOR GRATING (GALV.)	GFC1		
215.1426	STAIR TREADS	GFB2		
215.1427	HANDRAIL	GFB1		
215.143	EXTERIOR WALLS			
215.1431	CONCRETE	GEC2		
215.1432	MASONRY	GGA3		
215.1433	METAL INSULATED SIDING	GGA1		
215.144	ROOF DECK			
215.1442	CONCRETE PLANK	GGB4		
215.145	ROOFING + FLASHING			
215.1453	ELASTOMERIC ROOFING	GG85		
215.146	INTERIOR WALLS + PARTITION			
215.1461	CONCRETE WALLS	GEC2		
215.1462	MASONRY WALLS	GGA3		
215.1463	METAL PARTITIONS	GGA2		
215.147	DOORS + WINDOWS			
215.1471	ROLLING STEEL DOOR	GGD1		
215.1472	PERSONNEL DOORS	GGD2		
215.1473	WINDOWS	GGCX		
215.149	PAINTING			

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MODEL 356 - 0000 MWE73000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
215.1491	CONCRETE	GGF1				
215.1492	STEELWORK	GGF2				
215.1493	METAL DECK	GGF5				
215.1494	HANDRAIL	GGF6				
215.2	BUILDING SERVICES					
215.21	PLUMBING + DRAINS					
215.211	ROOF DRAIN + PIPING					
215.2111	DRAINS	MDA1				
215.2115	PIPING					
215.21152	2.5 IN + LARGER	MBDX				
215.212	FLOOR DRAINS + PIPING					
215.2121	DRAINS	MDB1				
215.2125	PIPING	MBXX				
215.22	HEATING, VENT, + AIR COND.					
215.221	STEAM HEATING SYSTEM					
215.2212	HEAT TRANSFER EQUIPMENT					
215.22121	STEAM HEATERS	MFR2				
215.2215	PIPING					
215.22151	2 IN + SMALLER	MBCX				
215.22152	2.5 IN + LARGER	MBDX				
215.2216	VALVES	MCAX				
215.2217	PIPING - MISC ITEMS					
215.22171	HANGERS	MAA				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
215.22172	INSULATION	MMA2				
215.222	ELECTRIC HEATING SYSTEM					
215.2222	HEAT TRANSFER EQUIPMENT					
215.22221	ELECTRIC HEATERS	MFR2				
215.223	GENERAL SUPPLY + EXHAUST					
215.2231	ROTATING MACHINERY					
215.22391	GEN BLDG SUPPLY UNIT+MOTOP	MF01				
215.223911	SUPPLY UNIT	MF02				
215.223912	SUPPLY UNIT MOTOR	EHDX				
215.22393	GEN BLDG EXHAUST UNIT+MTR	MF01				
215.223931	EXHAUST UNIT	MF02				
215.223932	EXHAUST UNIT MOTOR	EHDX				
215.225	LAB EXHAUST SYSTEM					
215.2259	SKIDS + FOUNDATIONS					
215.22591	LAB EXHAUST UNIT + MOTOR	MF01				
215.225911	LAB EXHAUST UNIT	MF02				
215.225912	LAB EXHAUST UNIT MOTOR	EHDX				
215.226	BUILDING COOLING SYSTEMS					
215.2261	ROTATING MACHINERY					
215.22611	CHILLER + MOTOR	MFR5				
215.226111	CHILLER	MFR6				
215.226112	CHILLER MOTOR	EHDX				
215.22612	CHILLED WATER PUMP + MOTOR	MFA1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
215.226121	CHILLED WATER PUMP	MFA2				
215.226122	CHILLED WATER PUMP MOTOR	EHDX				
215.2262	HEAT TRANSFER EQUIPMENT					
215.22621	CHILLED WATER COILS	MFR6				
215.2263	TANKS + PRESSURE VESSELS					
215.22631	COMPRESSION TANK	MFC1				
215.22632	AIR SEPARATOR	MFC1				
215.2265	PIPING & DUCTWORK					
215.22651	2 IN & SMALLER	MBCX				
215.226511	CS/NNS	MBC1				
215.22652	2.5 IN & LARGER	MBDX				
215.226521	CS/NNS	MBD1				
215.22653	DUCTWORK	MFQ7				
215.2266	VALVES	MCA				
215.22661	GATE					
215.2267	PIPING - MISC ITEMS					
215.22671	HANGERS & SUPPORTS	MAA				
215.22672	INSULATION	MHA2				
215.2269	SKIDS + FOUNDATIONS					
215.22691	LAB AIR COND UNIT + MOTOR	MFR3				
215.226911	LAB AIR COND UNIT	MFR4				
215.226912	LAB AIR COND UNIT MOTOR	EHEX				
215.22692	REFUEL C.R. A/C UNIT + MTR	MFR3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
215.22693	ANALYTIC I.R.A/C UNIT +MTR	MFR3				
215.226931	ANALYTIC I.R.A/C UNIT	MFR4				
215.226932	ANALYTIC I.R.A/C UNIT MTR	EHEX				
215.22694	HEL PURIF A/C UNIT + MOTOR	MFR3				
215.226941	HEL PURIF A/C UNIT	MFR4				
215.226942	HEL PURIF A/C UNIT MOTOR	EHDX				
215.226943	HEL PURIF A/C I & C					
215.227	RSB HVAC I & C	MID1				
215.23	FIRE PROTECTION	MEXX				
215.24	LIGHTING + SERVICE POWER	EBBX				
215.25	ELEVATOR					
215.251	ELEVATOR EQUIPMENT	GHA1				
216.1116						
216.2115		GCB				
217.24	LIGHTING + SERVICE POWER	EBBX				
218A.	CONTROL RM/D-G BUILDING		356218A			

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01	0	A SEISMIC CATEGORY I REINFORCED
02	0	CONCRETE STRUCTURE SUPPORTED ON A 4 FT
03	0	THICK MAT. THE EXTERIOR WALLS, INTERIOR
04	0	WALLS AND INTERIOR SLABS ARE REINFORCED
05	0	CONCRETE. THE EXTERIOR WALLS ARE A
06	0	MINIMUM OF 2 FT THICK. THE INTERIOR
07	0	SLABS ARE CAST IN PLACE CONCRETE
08	0	SUPPORTED BY CONCRETE BEAMS, COLUMNS
09	0	AND WALLS. THE ROOF SLAB IS CAST IN
10	0	PLACE CONCRETE AND COVERED WITH A
101	0	ROOFING MEMBRANE AND A STEEL FRAMING
11	3	APPROXIMATE DIMENSIONS OF THE BUILDING
12	3	ARE 131 FT X 147 FT. THE VOLUME IS
13	3	3,000,000 CU. FT.

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218A.1	BUILDING STRUCTURE					
218A.11	EXCAVATION WORK					
218A.111	EARTH EXCAVATION	GCA1				
218A.112	ROCK EXCAVATION	GCA3				
218A.113	CONCRETE FILL					
218A.114	FILL + BACKFILL	GCC1				
218A.115	DEWATERING	GCBX				
218A.13	SUBSTRUCTURE CONCRETE					
218A.131	FORMWORK	GEA21				
218A.132	REINF. STEEL	GEB11				
218A.133	CONCRETE	GEC21				
218A.135	FLOOR FINISH	GEE2				
218A.136	WATERPROOFING	GEF				
218A.137	CONSTRUCTION JOINTS	GEG				
218A.138	WIRE FABRIC	GEB3				
218A.14	SUPERSTRUCTURE					
218A.141	CONCRETE WORK					
218A.1411	FORMWORK					
218A.14111	FORMWORK-WOOD	GEA22				
218A.14112	FORMWORK-METAL	GEA1				
218A.1412	REINF. STEEL	GEB12				
218A.1413	CONCRETE	GEC22				
218A.1414	EMBEDDED STEEL	GED2				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218A.1415	FLOOR FINISH	GEE2	123456789012345678901234567890123456789	
218A.1416	WATERPROOFING	GEF		
218A.1417	RUBBING CONCRETE SURFACES	GEE1		
218A.1418	CONSTRUCTION JOINTS	GEG		
218A.142	STRUCT. + MISC. STEEL			
218A.1421	STRUCTURAL STEEL	GFA		
218A.1422	FLOOR + PLATFORM SUPPORTS	GFB4		
218A.1425	FLOOR GRATING (GALV.)	GFC1		
218A.1426	STAIR TREADS	GFB2		
218A.1427	HANDRAIL	GFB1		
218A.143	EXTERIOR WALLS			
218A.1431	CONCRETE WALLS	GEC2		
218A.1433	METAL INSULATED SIDING	GGA1		
218A.144	ROOF DECK			
218A.1441	METAL DECK	GGB1		
218A.1442	CONCRETE PLANK	GGB4		
218A.1443	CONCRETE	GEC23		
218A.1444	REINFORCING STEEL	GEB12		
218A.145	ROOFING + FLASHING			
218A.1451	B.U. ROOF, INSL. + FLASH	GGB2		
218A.1452	B.U. ROOF. + FLASH (NO INSUL)	GGB3		
218A.1453	ELASTOMERIC ROOFING	GGB5		
218A.146	INTERIOR WALLS + PARTITION			

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
218A.1461	CONCRETE WALLS	GEC2				
218A.1462	MASONRY WALLS	GGA3				
218A.1463	METAL PARTITIONS	GGA2				
218A.1464	GLASS PARTITIONS	GGA7				
218A.147	DOORS + WINDOWS					
218A.1471	SLIDING DOOR	GGD1				
218A.1472	PERSONNEL DOORS	GGD2				
218A.1473	SASH + GLAZING	GGCX				
218A.148	WALL, FLR, + CEIL. FINISH					
218A.1481	VINYL TILE FLOOR	GGE2				
218A.1482	SUSPENDED CEILING	GGE4				
218A.1484	CERAMIC TILE FLOOR	GGE3				
218A.1485	CERAMIC TILE WALL FINISH	GGE3				
218A.1486	RAISED FLOOR (COMPUTER RM)	GGE8				
218A.149	PAINTING					
218A.1491	CONCRETE	GGF1				
218A.1492	STEELWORK	GGF2				
218A.1493	METAL DECK	GGF5				
218A.1494	HANDRAILS	GGF6				
218A.2	BUILDING SERVICES					
218A.21	PLUMBING + DRAINS					
218A.211	ROOF DRAINS + PIPING					
218A.2111	DRAINS	MDA1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218A.2115	PIPING (ALL 2.5 IN + LGR)			
218A.21152	GALV STEEL/NNS	MBD3		
218A.212	FLOOR DRAINS + PIPING			
213A.2121	DRAINS	MBB1		
218A.2125	PIPING (ALL 2.5 IN + LGR)			
218A.21252	CI/NNS	MBD7		
218A.213	PLUMBING + FIXTURES			
218A.2131	FIXTURES	MGB1		
218A.2135	PIPING			
218A.21351	2 IN + SMALLER - CS/NNS	MBC1		
218A.21352	2.5 IN + LARGER - CS/NNS	MBD1		
218A.2136	VALVES	MCA		
218A.21361	GATE			
218A.2137	PIPING-MISC ITEMS			
218A.21371	HANGERS & SUPPORTS	MAA		
218A.214	SUPPLY WATER SYSTEM			
218A.2145	SUPPLY WATER PIPING			
218A.21451	2 IN + SMALLER- COPPER/NNS	MBC4		
218A.22	HEATING, VENT, + AIR COND			
218A.221	CONTROL ROOM COMPLEX VENT			
218A.2211	ROTATING MACHINERY			
218A.22111	REMOTE AIR IN. BOOST. FANS	MFQ1		
218A.22112	EXHAUST FAN+M(KITCH+MISC)	MFQ1		

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218A.2212	HEAT TRANSFER EQUIPMENT					
218A.22121	CONTROL ROOM UNIT HEATERS	MFR1				
218A.22122	CONTROL ROOM COOLING TOWER	MFR7				
218A.2215	PIPING + DUCTWORK					
218A.22151	2 IN + SMALLER - COPPER/NNS	MBC4				
218A.22152	2.5 IN + LARGER - COPPER/NNS	MBD4				
218A.22153	GENERAL DUCTWORK	MFQ7				
218A.22154	EMERG O.A. DUCT - CS/SC 3	MBB11				
218A.2216	VALVES + DAMPERS					
218A.22169	SHUTOFF DAMPERS	MFQ5				
218A.2217	PIPING - MISC. ITEMS	MAXX				
218A.2219	SKIDS + FOUNDATIONS					
218A.22191	FILTER + CLEANUP UNIT	MFQ3				
218A.22192	CONT RM A/C + COND UNITS	MFR3				
218A.22193	COMP RM A/C + COND UNITS	MFR3				
218A.222	EMG SWITCHGEAR ROOM VENT					
218A.2221	ROTATING MACHINERY					
218A.22211	SUPPLY FAN + MOTOR (CAC5)	MFQ1				
218A.22212	EXHAUST FAN + MOTOR (CAC5)	MFQ1				
218A.2225	PIPING + DUCTWORK					
218A.22253	DUCTWORK	MFQ7				
218A.2226	VALVES + DAMPERS					
218A.22261	OUTSIDE AIR INTAKE LOUVERS	MFQ6				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218A.22262	EXHAUST LOUVERS (UP+LOWER)	MFQ6				
218A.223	CABLE SPRD AR VENT(UP+LOW)					
218A.2231	ROTATING MACHINERY					
218A.22311	SUPPLY FAN + MOTOR	MFQ1				
218A.22312	EXHAUST FAN + MOTOR	MFQ1				
218A.2235	PIPING + DUCTWORK					
218A.22353	DUCTWORK	MFQ7				
218A.2236	VALVES + DAMPERS					
218A.22361	OUTSIDE AIR INTAKE LOUVERS	MFQ6				
218A.22362	EXHAUST LOUVERS	MFQ6				
218A.224	BATTERY ROOM VENT					
218A.2241	ROTATING MACHINERY					
218A.22411	EXHAUST FANS + MOTORS	MFQ1				
218A.2245	PIPING + DUCTWORK					
218A.22453	DUCTWORK	MFQ7				
218A.225	SWITCH GEAR AREA					
218A.2251	ROTATING MACHINERY					
218A.22511	SUPPLY FAN + MOTOR	MFQ1				
218A.22512	EXHAUST FAN + MOTOR	MFQ1				
218A.2255	PIPING + DUCTWORK					
218A.22553	DUCTOWRK	MFQ7				
218A.2256	VALVES + DAMPERS					
218A.22561	OUTSIDE AIR INTAKE LOUVERS	MFQ6				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218A.22562	DAMPERS-SUPPLY + EXHAUST	MF06	12345678901234567890123456789	
218A.22563	EXHAUST LOUVERS	MF06		
218A.226	DG ROOM VENT			
218A.2261	ROTATING MACHINERY			
218A.22611	EXHAUST FAN + MOTOR	MFQ1		
218A.2265	PIPING + DUCTWORK			
218A.22653	DUCTWORK	MFQ7		
218A.2266	VALVES + DAMPERS			
218A.22661	OUTSIDE AIR INTAKE LOUVERS	MF06		
218A.22662	LOUVERS	MF06		
218A.2267	DG AREA HVAC I + C	MID1		
218A.227	ELECTRONIC EQUIPMENT ROOM	MFXX		
218A.2275	PIPING + DUCTWORK			
218A.22753	DUCTWORK	MF07		
218A.2278	CONTROL BLDG HVAC I&C	MIBX		
218A.2279	FOUNDATIONS/SKIDS			
218A.22791	AIR CONDITIONING UNIT	MFR3		
218A.228	CONTROL RM CHILLED WTR SYS			
218A.2281	ROTATING MACHINERY			
218A.22811	CHILLERS + MOTOR	MFR5		
218A.22812	CHILLED WATER PUMP + MOTOR	MFA1		
218A.2283	TANKS + PRESSURE VESSELS			
218A.22831	COMPRESSION TANKS	MFC1		

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO.	DESCRIPTION
218A.22832	AIR SEPERATORS	MFC1			
218A.2285	PIPING				
218A.22851	2 IN & SMALLER CS/NNS	MBC1			
218A.22852	2.5 IN & LARGER CS/NNS	MBD1			
218A.2286	VALVES	MCA			
218A.22861	GATE				
218A.2287	PIPING-MISC. ITEMS				
218A.22871	HANGERS + SUPPORTS	MAA			
218A.229	CABLE PENETRATN AREA VENT				
218A.2291	ROTATING MACHINERY				
218A.22911	SUPPLY FAN + MOTOR	MFQ1			
218A.22912	EXHAUST FAN + MOTOR	MFQ1			
218A.2295	PIPING + DUCTWORK				
218A.22953	DUCTWORK	MFQ7			
218A.2296	VALVES + DAMPERS				
218A.22961	OUTSIDE AIR INTAKE LOUVERS	MFQ6			
218A.22962	EXHAUST LOUVERS	MFQ6			
218A.24	LIGHTING & SERVICE POWER	EBB			

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MODEL 356 - 0000 MWE/3000 MWT HYGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
2188.	ADMIN + SERV BLDG		3562188	01	0	NON SEISMIC CATEGORY I BUILDING
				02	0	SUPPORTED ON REINFORCED CONCRETE SPREAD
				03	0	FOOTINGS AND CONSISTING OF A STRUCTURAL
				04	0	STEEL FRAME WITH INSULATED METAL SIDING
				05	0	AND CONCRETE PLANK COVERED WITH
				06	0	REINFORCED CONCRETE SLAB AND A ROOFING
				07	0	MEMBRANE. FLOORS ARE REINFORCED
				08	0	CONCRETE SUPPORTED ON GRADE
				09	0	BUILDING DIMENSIONS ARE 175 FT X 164 FT
				10	0	WITH ATTACHED ROOMS FOR THE AUXILIARY
				11	0	BOILER AND MAKE-UP DEMINERALIZER. THE
				12	0	BUILDING VOLUME IS 868,000 CU. FT.

2188.1	BUILDING STRUCT.					
2188.11	EXCAVATION WORK					
2188.111	EARTH EXCAVATION		GCA12			
2188.112	ROCK EXCAVATION		GCA3			
2188.113	CONCRETE FILL		GEC1			
2188.114	FILL + BACKFILL		GCC1			
2188.115	DEWATERING		GCBX			
2188.13	SUBSTRUCTURE CONCRETE					
2188.131	FORMWORK		GEA21			
2188.132	REINF. STEEL		GEB11			
2188.133	CONCRETE		GEC21			
2188.134	EMBEDDED STEEL		GED2			
2188.135	FLOOR FINISH		GEE2			
2188.136	WATERPROOFING		GEFX			
2188.137	CONSTRUCTION JOINTS		GEG			
2188.138	RUBBING CONCRETE SURF.		GEE1			

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218B.14	SUPERSTRUCTURE			
218B.141	CONCRETE WORK			
218B.1411	FORMWORK			
218B.14112	FORMWORK-METAL	GEA1		
218B.1412	REINF. STEEL	GEB13		
218B.1413	CONCRETE	GEC22		
218B.1414	EMBEDDED STEEL	GED2		
218B.1415	FLOOR FINISH	GEE2		
218B.1416	WATERPROOFING	GEFX		
218B.1417	RUBBING CONCRETE SURFACES	GEE1		
218B.142	STRUCT. + MISC. STEEL			
218B.1421	STRUCT. STEEL	GFA		
218B.1425	FLOOR GRATING (GALV.)	GFC1		
218B.1426	STAIR TREADS	GFB2		
218B.1427	HANDRAIL	GFB1		
218B.143	EXTERIOR WALLS			
218B.1431	CONCRETE WALLS	GEC2		
218B.1432	MASONRY WALLS	GGA3		
218B.1433	METAL INSULATED SIDING	GGA1		
218B.1434	WINDOW WALL	GGC2		
218B.144	ROOF DECK			
218B.1442	CONCRETE PLANK	GGB4		
218B.1443	CONCRETE	GEC23		

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MODEL 356 - 0000 MWE/3000 MWT HYGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
2188.1444	REINF. STEEL	GEB12	123456789012345678901234567890123456789	
2188.145	ROOFING + FLASHING			
2189.1453	ELASTOMERIC ROOFING	GGB5		
2188.146	INTERIOR WALLS + PARTITIONS			
2188.1461	CONCRETE WALLS	GEC2		
2188.1462	MASONRY WALLS	GGA3		
2189.1463	METAL PARTITIONS	GGE1		
2188.1464	PLASTER BD PARTITIONS	GGAB		
2188.147	DOORS + WINDOWS			
2188.1471	POLLING STEEL DOORS	GGD1		
2188.1472	PERSONNEL DOORS	GGD2		
2188.1473	SASH + GLAZING	GGC		
2188.148	WALLS, FLOOR + CEIL. FINISHS			
2188.1481	VINYL FLOOR TILE	GGE2		
2188.1482	CERAMIC TILE FLOOR	GGE3		
2188.1483	CARPET	GGE6		
2188.1484	CERAMIC TILE WALL FINISH	GGE3		
2188.1485	SUSPENDED CEILING	GGE4		
2188.149	PAINTING			
2188.1491	CONCRETE	GGF1		
2188.1492	STEELWORK	GGF2		
2188.1493	METAL DECK	GGF5		
2188.1494	SPECIAL METALLIC PAINT	GGF7		

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS. COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
218B.1495	HANDRAIL	GGF6					
218B.1496	EPOXY PAINT	GGF7					
218B.1497	MASONRY WALLS	GGF8					
218B.2	BLDG. SERVICES						
218B.21	PLUMBING + DRAINS						
218B.211	ROOF DRAINS + PIPING						
218B.2111	DRAINS	HDA1					
218B.2115	PIPING (ALL 2.5 IN+LARGER)						
218B.21151	GALV STL/NNS	MBD3					
218B.212	FLOOR DRAINS + PIPING						
218B.2121	DRAINS	MDB1					
218B.2125	PIPING (ALL 2.5IN+LARGER)						
218B.21252	CI/NNS	MBD7					
218B.213	PLUMBING FIXTURES + PIPING						
218B.2131	FIXTURES	MGB1	356218B2131	01	3	WATER CLOSETS -	9
				02	3	URINALS -	5
				03	3	LAVATORIES -	5
				04	3	SHOWERS -	9
				05	3	SERVICE SINKS -	2
				06	3	KITCHEN SINKS -	1
				07	3	DRINKING FOUNTAINS -	4
218B.2132	DOMESTIC WATER HTRS	MGB4	356218B2132	01	3	QUANTITY -	2
				02	3	TYPE -	ELECTRIC
				03	3	VOLUME -	120 GAL
				04	0	HEATING CAP. -	37 KW
				05	3	VOLTAGE -	460 V, 3 PHASE, 60 HZ
				06	3	RECOVERY CAP. -	110 GAL @ 100 F
218B.2135	PIPING						

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO.	DESCRIPTION
218B.21351	2 IN + SMALLER - CS/NNS	MBC1			
218B.21352	2 IN + SMALLER-COPPER/NNS	MBC4			
218B.21353	2.5 IN + LARGER - CS/NNS	MBD1			
218B.2136	VALVES	MCA			
218B.21361	GATE				
218B.2137	PIPING-MISC				
218B.21371	HANGERS & SUPPORTS	MAA			
218B.22	HVAC				
218B.221	AIR CONDITIONING SYSTEMS	MFP			
218B.222	VENTILATION SYSTEM	MFR			
218B.223	EXHAUST AIR SYSTEM				
218B.22316	AUX BOIL RM SUMMER EXH FAN	MFQ1			
218B.22317	AUX BOIL WTR TR RM EXH FAN	MFQ1			
218B.224	REFRIG. CHILLED WTR SYS				
218B.2245	PIPING				
218B.22451	2 IN + SMALLER - CS/NNS	MBC1			
218B.22452	2.5 IN + LARGER - CS/NNS	MBD1			
218B.2246	VALVES	MCA			
218B.22461	GATE	MCA1			
218B.22462	CHECK	MCA2			
218B.22463	GLOBE	MCA3			
218B.22465	SAFETY/RELIEF	MCA5			
218B.22468	PLUG	MCA8			

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218B.22469	SPECIAL VALVES	MCA9	12345678901234567890123456789	
218B.2247	PIPING-MISC. ITEMS			
218B.22471	HANGERS	MAA		
213B.225	BUILDING HEATING SYSTEMS			
218B.2251	ROTATING MACHINERY			
218B.22511	PRI.H.W. CIRC PUMP	MFA1		
218B.22514	ADMIN OFF REHEAT CIRC PUMP	MFA1		
218B.22515	QA STORES REHEAT CIRC PUMP	MFA1		
218B.22516	LOCK ROOM REHEAT CIRC PUMP	MFA1		
218B.22517	UNIT HEATER LOOP CIRC PUMP	MFA1		
218B.22518	STOREROOM REHEAT CIRC PUMP	MFA1		
218B.22519	AUX BOIL RM CIRC PUMPS	MFA1		
218B.2252	HEAT TRANSFER EQUIPMENT			
218B.22521	STEAM TO H.W. HEAT EX	MFB2		
218B.22522	GEN.BLDG UNIT HEATERS	MFR1		
218B.22523	AUX BOIL RM UNIT HTR/ONE	MFR1		
218B.22524	AUX BOIL RM UNIT HTR/TWO	MFR1		
218B.2253	TANKS + PRESSURE VESSELS			
218B.22531	H.W. EXPANSION TANK	MFC1		
218B.22532	AIR SEPARATOR	MFC1		
218B.2255	PIPING			
218B.22551	2 IN + SMALLER - CS/NNS	MBC1		
218B.22552	2.5 IN + LARGER - CS/NNS	MBD1		

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MODEL 356 - 0000 MWE/3000 MWT HYGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218B.2256	VALVES	MCA				
218B.22561	GATE	MCA1				
218B.22562	CHECK	MCA2				
218B.22563	GLOBE	MCA3				
218B.22565	SAFETY/RELIEF	MCA5				
218B.22568	PLUG	MCA8				
218B.22569	SPECIAL VALVES	MCA9				
218B.2257	PIPING - MISC ITEMS					
218B.22571	HANGERS	MAA				
218B.226	DUCTWORK	MFQ7				
218B.228	INSTRUMENTATION & CONTROL	MID1				
218B.23	FIRE PROTECTION					
218B.24	LIGHTING & SERVICE POWER	EBB				
218D.	FIRE PUMP HOUSE		356218D	01	0	A NON SEISMIC CATEGORY I STRUCTURE
				02	0	SUPPORTED ON SPREAD FOOTINGS WITH A
				03	0	STRUCTURAL STEEL FRAME, METAL INSULATED
				04	0	SIDING AND BUILT-UP ROOFING ON METAL
				05	0	ROOF DECK. DIMENSIONS ARE 28 FT X 76 FT
				06	0	WITH A VOLUME OF 34,000 CU. FT. TANK
				07	0	FOUNDATIONS ARE REINFORCED CONCRETE
				08	0	RING WALLS WITH A SAND BED.
218D.1	BLDG. STRUC.					
218D.11	EXCAVATION WORK					
218D.111	EARTH EXCAVATION	GCA12				
218D.112	ROCK EXCAVATION	GCA3				
218D.113	CONCRETE FILL	GEC1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218D.114	FILL + BACKFILL	GCC1				
218D.115	DEWATERING	GCB				
218D.13	SUBSTRUCTURE CONCRETE					
218D.131	FORMWORK	GEA21				
218D.132	REINF. STEEL	GEB11				
218D.133	CONCRETE	GEC21				
218D.134	EMBEDDED STEEL	GED2				
218D.135	FLOOR FINISH	GEE2				
218D.14	SUPERSTRUCTURE					
218D.141	CONCRETE WORK					
218D.1411	FORMWORK	GEA2				
218D.1412	REINF. STEEL	GEB1				
218D.1413	CONCRETE	GEC2				
218D.142	STRUCT. + MISC. STEEL					
218D.1421	STRUCT. STEEL	GFA				
218D.1423	MISC. FRAMES, ETC.	GFB4				
218D.1425	FLOOR GRATING (GALV.)	GFC1				
218D.143	EXTERIOR WALLS					
218D.1433	METAL INSUL. SIDING	GGA1				
218D.144	ROOF DECK					
218D.1441	METAL ROOF DECK	GGB1				
218D.1442	CONCRETE PLANK	GGB4				
218D.1443	CONCRETE FILL	GEC1				

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MODEL 356 - 0000 MWE73000 MWT HTGR ; MULTIPLEX ; GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218D.1444	REINF. STEEL	GEB1				
218D.145	ROOF. + FLASHING					
218D.1451	B.U. ROOF, INSUL. + FLASH	GGB2				
218D.146	INT. WALLS + PARTIT.					
218D.1462	MASONRY WALLS	GGA3				
218D.1463	PARTITIONS	GGA2				
218D.147	DOORS + WINDOWS					
218D.1471	ROLLING STEEL DOORS	GGD1				
218D.1472	PERSONNEL DOORS	GGD2				
218D.1473	SASH + GLAZING	GGCX				
218D.149	PAINTING					
218D.1491	CONCRETE	GGF1				
218D.1492	STEELWORK	GGF2				
218D.1493	METAL DECK	GGF5				
218D.2	BUILDING SERVICES					
218D.21	PLUMBING + DRAINS					
218D.211	ROOF DRAINS + PIPING					
218D.2111	DRAINS	MDA1				
218D.2115	PIPING (ALL 2.5 IN + LGR)					
218D.21152	GALV STEEL/NNS	MBD3				
218D.212	FLOOR DRAINS + PIPING					
218D.2121	DRAINS	MDB1				
218D.2125	PIPING					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL	DESCRIPTION
			REF. NUMBER NO. NO.	123456789012345678901234567890123456789
218D.21251	2 IN + SMALLER - CI/NNS	MBC7		
218D.21252	2.5 IN + LARGER - CI/NNS	MBD7		
219D.2127	PIPING - MISC ITEMS			
218D.21271	HANGERS	MAA		
218D.22	HEATING, VENT, + AIR COND			
218D.221	ROTATING MACHINERY			
218D.2211	ROOF VENTILATORS + MOTOR	MFQ1		
218D.22111	ROOF VENTILATOR	MFQ2		
218D.22112	ROOF VENTILATOR MOTOR	EHDX		
218D.222	HEAT TRANSFER EQUIPMENT			
218D.2221	UNIT HEATER + MOTOR	MFR1		
218D.22211	UNIT HEATER	MFR2		
218D.22212	UNIT HEATER MOTOR	EHEX		
218D.225	PIPING			
218D.2251	2 IN + SMALLER			
218D.22511	CS/NNS	MBC1		
218D.226	VALVES + DAMPERS	MCA		
218D.2261	GATE	MCA1		
218D.2263	GLOBE	MCA3		
218D.2269	SPECIAL VALVES + DAMPERS			
218D.22691	INTAKE LOUVERS	MF06		
218D.227	PIPING - MISC ITEMS	MAXX		
218D.228	INSTRUMENTATION & CONTROL	MID1		

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218D.24	LIGHTING & SERVICE POWER					
218E.	HELIUM STORAGE AREA		356218E	01	0	A NON SEISMIC CATEGORY I AREA
				02	0	212 FT X 168 FT SUPPORTING THREE ROWS
				03	0	OF GAS STORAGE TANKS. EACH TANK IS
				04	0	SUPPORTED ON TWO REINFORCED CONCRETE
				05	0	SADDLES WHICH ARE SUPPORTED ON
				06	0	CONTINUOUS REINFORCED CONCRETE
				07	0	FOOTINGS. THE AREA BENEATH THE TANK IS
				08	0	BACKFILLED WITH CRUSHED STONE.
218E.1	BUILDING STRUCTURE					
218E.11	EXCAVATION WORK					
218E.111	EARTH EXCAVATION		GCA12			
218E.114	FILL + BACKFILL					
218E.1141	EARTH BACKFILL		GCC12			
218E.1142	CRUSHED STONE		GCC4			
218E.13	SUBSTRUCTURE CONCRETE					
218E.131	FORMWORK		GEA21			
218E.132	REINF. STEEL		GEB11			
218E.133	CONCRETE		GEC21			
218E.137	CONSTRUCTION JOINTS		GEG			
218I.	ACCESS BUILDING		356218I	01	0	NON SEISMIC CATEGORY I BUILDING
				02	0	SUPPORTED ON REINFORCED CONCRETE SPREAD
				03	0	FOOTINGS AND CONSISTING OF A STRUCTURAL
				04	0	STEEL FRAME WITH INSULATED METAL SIDING
				05	0	AND CONCRETE PLANK COVERED WITH
				06	0	REINFORCED CONCRETE SLAB AND A ROOFING
				07	0	MEMBRANE. FLOORS ARE REINFORCED
				08	0	CONCRETE SUPPORTED ON STEEL FRAMING.
				09	3	BUILDING DIMENSIONS ARE 100 FT X 80 FT
				10	3	THE BUILDING VOLUME IS 400,000 CU. FT.
218I.1	BUILDING STRUCTURE					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO.	DESCRIPTION
2181.11	EXCAVATION WORK				
2181.111	EARTH EXCAVATION	GCA1			
2181.112	ROCK EXCAVATION	GCA3			
2181.113	CONCRETE FILL	GEC1			
2181.114	FILL + BACKFILL	GCC1			
2181.115	DEWATERING	GCBX			
2181.13	SUBSTRUCTURE CONCRETE				
2181.131	FORMWORK	GEA21			
2181.132	REINF. STEEL	GEB11			
2181.133	CONCRETE	GEC21			
2181.134	EMBEDDED STEEL	GED2			
2181.135	FLOOR FINISH	GEE2			
2181.137	CONSTRUCTION JOINTS	GEG			
2181.138	RUBBING CONCRETE SURFACES	GEE1			
2181.14	SUPERSTRUCTURE				
2181.141	CONCRETE WORK				
2181.1411	FORMWORK				
2181.14111	FORMWORK-WOOD	GEA22			
2181.14112	FORMWORK-METAL	GEA1			
2181.1412	REINF. STEEL	GEB12			
2181.1413	CONCRETE	GEC22			
2181.1414	EMBEDDED STEEL	GED2			
2181.1415	FLOOR FINISH	GEE2			

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MODEL 356 - 0000 MWE73000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
2181.1418	CONSTRUCTION JOINTS	GEG				
2181.142	STRUCT + MISC. STEEL					
2181.1421	STRUCT STEEL	GFA				
2181.1423	MISC. FRAMES, ETC.	GFB4				
2181.1425	FLOOR GRATING (GALV)	GFC1				
2181.1426	STAIR TREADS	GFB2				
2181.1427	HANDRAIL	GFB1				
2181.143	EXTERIOR WALLS					
2181.1433	METAL INSULATED SIDING	GGA1				
2181.144	ROOF DECK					
2181.1442	CONCRETE PLANK	GGB4				
2181.1443	CONCRETE	GEC23				
2181.1444	REINFORCING STEEL	GEB12				
2181.145	ROOFING + FLASHING					
2181.1453	ELASTOMERIC ROOFING	GGB5				
2181.146	INTERIOR WALLS + PARTITION					
2181.1462	MASONRY WALLS	GGA3				
2181.1463	METAL PARTITIONS	GGE1				
2181.1464	PLASTERBOARD PARTITIONS	GGA8				
2181.147	DOORS + WINDOWS					
2181.1471	ROLLING STEEL DOORS	GGD1				
2181.1472	PERSONNEL DOORS	GGD2				
2181.1473	SASH + GLAZING	GGC				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
2181.148	WALL, FLOOR+CEILING FINISH					
2181.1481	VINYL FLOOR TILE	GGE2				
2181.1482	CERAMIC TILE FLOOR	GGE3				
2181.1484	CERAMIC TILE WALL FINISH	GGE3				
2181.1485	SUSPENDED CEILING	GGE4				
2181.149	PAINTING					
2181.1491	CONCRETE	GGF1				
2181.1492	STEEL WORK	GGF2				
2181.1493	METAL DECK	GGF5				
2181.1494	SPECIAL METALLIC PAINT	GGF7				
2181.1495	HANDRAIL	GGF6				
2181.1496	EPOXY PAINT	GGF7				
2181.2	BLDG. SERVICES					
2181.21	PLUMBING & DRAINS	MDXX				
2181.211	ROOF DRAINS & PIPING					
2181.2111	DRAINS	MDA2				
2181.2115	PIPING (ALL 2.5IN&LARGER)					
2181.21151	GALV STL/NNS	MBD3				
2181.212	FLOOR DRAINS & PIPING					
2181.2121	DRAINS	MDB2				
2181.2125	PIPING (ALL 2.5IN&LARGER)					
2181.21251	CS/NNS	MBD1				
2181.21252	CI/NNS	MBD7				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
2181.213	PLUMBING FIXTURES & PIPING					123456789012345678901234567890123456789
2181.2131	FIXTURES	MGB1				
2181.2132	DOMESTIC WATER HTRS	MGB4				
2181.2135	PIPING					
2181.21351	2IN & SMALLER -CS/NNS	MBC1				
2181.21352	2IN & SMALLER -COPPER/NNS	MBC4				
2181.21353	2.5 IN&LARGER - CS/NNS	MBD1				
2181.22	HVAC	MFGX				
2181.221	AIR CONDITIONING SYSTEMS	MFR4				
2181.222	VENTILATION SYSTEM	MFO				
2181.224	REFRIG. CHILLED WTR SYS					
2181.2245	PIPING					
2181.22451	2IN & SMALLER-CS/NNS	MBC1				
2181.22452	2.5IN & LARGER-CS/NNS	MBD1				
2181.2246	VALVES	MCA				
2181.22461	GATE					
2181.22462	CHECK					
2181.22463	GLOBE					
2181.22465	SAFETY/RELIEF					
2181.22468	PLUG					
2181.22469	SPECIAL VALVES					
2181.2247	PIPING-MISC. ITEMS					
2181.22471	HANGERS	MAA				

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MODEL 356 - 0000 MWE/3000 HWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER	NO. NO.	DESCRIPTION
2181.225	BUILDING HEATING SYSTEMS				
2181.2251	ROTATING MACHINERY				
2181.22511	PRI. H.W. CIRC. PUMP	MFA2			
2181.22516	LOCK ROOM REHEAT CIRC PUMP	MFA2			
2181.22517	UNIT HEATER LOOP CIRC PUMP	MFA2			
2181.2252	HEAT TRANSFER EQUIPMENT				
2181.22521	STEAM TO H.W. HEAT EX	MFB2			
2181.22522	GEN BLDG UNIT HEATERS	MFB4			
2181.2253	TANKS & PRESSURE VESSELS				
2181.22531	H.W. EXPANSION TANK	MFC1			
2181.22532	AIR SEPARATOR	MFD3			
2181.2255	PIPING				
2181.22551	2 IN & SMALLER - CS/NNS	MBC1			
2181.22552	2.5 IN & LARGER - CS/NNS	MBD1			
2181.2256	VALVES				
2181.22561	GATE				
2181.22562	CHECK				
2181.22563	GLOBE				
2181.22565	SAFETY/RELIEF				
2181.22568	PLUG				
2181.22569	SPECIAL VALVES				
2181.2257	PIPING - MISC ITEMS				
2181.22571	HANGERS	MAA			

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
2181.226	DUCTWORK	MFQ7				
2181.228	INSTRUMENTATION & CONTROL	MID1				
2181.23	FIRE PROTECTION	MEXX				
2181.24	LIGHTING & SERVICE POWER	EBB				
218J.	PIPING PENETRATION BLDG.		356218J			
				01	0	SEISMIC CATEGORY I REINFORCED CONCRETE
				02	0	STRUCTURES SUPPORTED ON A 4 FT THICK
				03	0	MAT. THE EXTERIOR WALLS AND INTERIOR
				04	0	SLABS ARE REINFORCED CONCRETE. THE
				05	0	EXTERIOR WALLS ARE 3 FT THICK. THE
				06	0	UPPER EXTERIOR WALLS CONSIST OF A
				07	0	STRUCTURAL STEEL FRAME WITH INSULATED
				08	0	METAL SIDING. THE ROOF IS CONCRETE
				081	0	PLANK COVERED WITH REINFORCED
				09	0	CONCRETE SLAB WITH A ROOFING
				10	0	MEMBRANE AND SUPPORTED ON STEEL
				11	3	FRAMING. THE BUILDING IS APPROXIMATELY
				12	3	183 FT X 50 FT AND IS ADJACENT TO THE
				13	3	REACTOR CONTAINMENT BUILDING. THE TOTAL
				14	3	VOLUME OF THE STRUCTURE IS APPROXI-
				15	3	MATELY 600,000 CU. FT.
				16	0	IS APPROXIMATELY 300,000 CU. FT.
218J.1	BUILDING STRUCTURE					
218J.11	EXCAVATION WORK					
218J.111	EARTH EXCAVATION	GCA1				
218J.112	ROCK EXCAVATION	GCA3				
218J.113	CONCRETE FILL	GEC1				
218J.114	FILL + BACKFILL	GCC1				
218J.115	DEWATERING	GCBX				
218J.13	SUBSTRUCTURE CONCRETE					
218J.131	FORMWORK	GEA21				
218J.132	REINFORCING STEEL	GEB11				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218J.133	CONCRETE	GEC21		
218J.134	EMBEDDED STEEL	GED2		
218J.135	FLOOR FINISH	GEE2		
218J.136	WATERPROOFING	GEF		
218J.137	CONSTRUCTION JOINTS	GEG		
218J.138	RUBBING CONCRETE SURFACES	GEE1		
218J.139	WIRE FABRIC	GEB3		
218J.14	SUPERSTRUCTURE			
218J.141	CONCRETE WORK			
218J.1411	FORMWORK			
218J.14111	FORMWORK-WOOD	GEA22		
218J.1412	REINFORCING STEEL	GEB12		
218J.1413	CONCRETE	GEC22		
218J.1414	EMBEDDED STEEL	GED2		
218J.1415	FLOOR FINISH	GEE2		
218J.1416	WATERPROOFING	GEF		
218J.1417	RUBBING CONCRETE SURFACES	GEE1		
218J.1418	CONSTRUCTION JOINTS	GEG		
218J.142	STRUCTURAL + MISC. STEEL			
218J.1421	STRUCTURAL STEEL	GFA		
218J.1422	FLOOR + PLATFORM SUPPORTS	GFCX		
218J.1423	MISC. FRAMES, ETC.	GFB4		
218J.1425	FLOOR GRATING (GALV)	GFC1		

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218J.1426	STAIR TREADS	GFB2				
218J.1427	HANDRAIL	GFB1				
218J.143	EXTERIOR WALLS					
218J.1431	CONCRETE	GEC2				
218J.1433	METAL INSULATED SIDING	GGA1				
218J.144	ROOF DECK					
218J.1442	CONCRETE PLANK	GGB4				
218J.1443	CONCRETE FILL	GEC23				
218J.1444	REINFORCING STEEL	GEB12				
218J.145	ROOFING + FLASHING					
218J.1453	ELASTOMERIC ROOFING	GGB5				
218J.146	INTERIOR WALLS + PARTITION					
218J.1461	CONCRETE WALLS	GEC2				
218J.1463	METAL PARTITIONS	GGA2				
218J.147	DOORS + WINDOWS					
218J.1472	PERSONNEL DOORS	GGD2				
218J.149	PAINTING					
218J.1491	CONCRETE	GGF1				
218J.1492	STRUCTURAL STEEL	GGF2				
218J.1494	HANDRAIL	GGF6				
218J.2	BUILDING SERVICES					
218J.21	PLUMBING + DRAINS	MDXX				
218J.22	HEATING, VENT. + AIR COND.	MFOX				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218J.221	CNTMT PIPE PENET ENCLOSURE					
218J.2211	ROTATING MACHINERY					
218J.22111	SUPPLY FAN + MOTOR	MFQ1				
218J.22112	EXHAUST FAN + MOTOR	MFQ1				
218J.2215	PIPING + DUCTWORK					
218J.22153	DUCTWORK	MFQ7				
218J.2216	VALVES + DAMPERS					
218J.22161	OUTSIDE AIR INTAKE LOUVERS	MFQ6				
218J.22162	EXHAUST LOUVERS	MFQ6				
218J.24	LIGHTING + SERVICE POWER	EBBX				
218S.	HOLDING POND		356218S	01	0	A NON SEISMIC CATEGORY I REINFORCED CONCRETE BASIN SUPPORTED ON A 2 FT. THICK MAT. THE PLAN DIMENSIONS ARE 80 FEET SQUARE AND DIVIDED INTO TWO EQUAL CHAMBERS. THE VOLUME IS 51,000 CU. FT.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
218S.1	POND STRUCTURE					
218S.11	EXCAVATION WORK					
218S.111	EARTH EXCAVATION	GCA12				
218S.112	ROCK EXCAVATION	GCA3				
218S.113	CONCRETE FILL	GEC1				
218S.114	FILL + BACKFILL	GCC12				
218S.115	PUMPING	GCB				
218S.13	SUBSTRUCTURE CONCRETE					
218S.131	FORMWORK	GEA21				

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MODEL 556 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218S.132	REINF. STEEL	GEB11				
218S.133	CONCRETE	GEC21				
218S.134	EMBEDDED STEEL	GED2				
218S.135	FLOOR FINISH	GEE2				
218S.136	WATERPROOFING	GEFX				
218S.137	CONSTRUCTION JOINTS	GEG				
218S.138	RUBBING CONCRETE SURFACES	GEE1				
218T.	ULTIMATE HEAT SINK STRUCT		356218T	01	3	FOUR SEISMIC CATEGORY I REINFORCED
				02	0	CONCRETE STRUCTURES SUPPORTED ON A
				03	0	4 FT THICK MAT. THE EXTERIOR WALLS,
				04	0	INTERIOR WALLS AND INTERIOR SLABS ARE
				05	0	REINFORCED CONCRETE. THE EXTERIOR WALLS
				06	0	ARE A MINIMUM OF TWO FEET THICK. THE
				07	0	INTERIOR SLABS ARE CAST IN PLACE
				08	0	CONCRETE OVER METAL DECK AND SUPPORTED
				09	0	ON STEEL FRAMING. THE ROOF SLAB IS CAST
				10	0	IN PLACE CONCRETE OVER METAL DECK
				11	0	COVERED WITH A ROOFING MEMBRANE AND
				12	0	SUPPORTED ON STEEL FRAMING. DIMENSIONS
				13	3	OF THE BUILDINGS ARE EACH APPROXIMATELY
				14	3	50 FT X 50 FT. THE VOLUME OF EACH
				15	3	BUILDING IS APPROXIMATELY 75,000 CU.FT.
218T.1	BLDG. STRUCT					
218T.11	EXCAVATION WORK					
218T.111	EARTH EXCAVATION	GCA1				
218T.112	ROCK EXCAVATION	GCA3				
218T.113	CONCRETE FILL	GEC1				
218T.114	FILL + BACKFILL	GCC1				
218T.115	DEWATERING	GCBX				
218T.13	SUBSTRUCTURE CONCRETE					

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
218T.131	FORMWORK	GEA21	123456789012345678901234567890123456789	
218T.132	REINF. STEEL	GEB11		
218T.133	CONCRETE	GEC21		
218T.134	EMBEDDED STEEL	GED2		
218T.135	FLOOR FINISH	GEE2		
218T.136	WATERPROOFING	GEF		
218T.137	CONSTRUCTION JOINTS	GEG		
218T.138	WIRE FABRIC	GEB3		
218T.139	WATERSTOP	GEH		
218T.14	SUPERSTRUCTURE			
218T.141	CONCRETE WORK			
218T.1411	FORMWORK			
218T.14111	FORMWORK-WOOD	GEA22		
218T.14112	FORMWORK-METAL	GEA1		
218T.1412	REINF. STEEL	GEB12		
218T.1413	CONCRETE	GEC22		
218T.1414	EMBEDDED STEEL	GED2		
218T.1415	FLOOR FINISH	GEE2		
218T.1416	WATERPROOFING	GEF		
218T.1417	RUBBING CONCRETE SURFACES	GEE1		
218T.1418	CONSTRUCTION JOINTS	GEG		
218T.142	STRUCT + MISC. STEEL			
218T.1421	STRUCT STEEL	GFA		

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218T.1423	MISC. FRAMES, ETC.	GFB4				
218T.1426	STAIR TREADS	GFB2				
218T.1427	HANDRAIL	GFB1				
218T.143	EXTERIOR WALLS					
218T.1431	CONCRETE WALLS	GEC2				
218T.1432	MASONRY WALLS	GGA3				
218T.144	ROOF DECK					
218T.1443	CONCRETE FILL	GEC23				
218T.1444	REINFORCING STEEL	GEB12				
218T.145	ROOFING + FLASHING					
218T.1452	BU ROOF + FLASH (NO INSUL)	GGB3				
218T.146	INTERIOR WALLS + PARTITION					
218T.1461	CONCRETE WALLS	GEC2				
218T.1462	MASONRY WALLS	GGA3				
218T.1463	PARTITIONS	GGA2				
218T.147	DOORS + WINDOWS					
218T.1472	PERSONNEL DOORS	GGD2				
218T.1473	SASH + GLAZING	GGCX				
218T.149	PAINTING					
218T.1491	CONCRETE (WATERSEALING)	GGF8				
218T.1492	STEELWORK	GGF2				
218T.1493	METAL DECK	GGF5				
218T.1494	HANDRAIL	GGF6				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218T.2	BUILDING SERVICES					
218T.21	PLUMBING + DRAINS					
218T.211	FLOOR DRAINS + PIPING	MDBX				
218T.22	HEATING + VENTILATION	MFO				
218T.228	INSTRUMENTATION + CONTROLS	MID1	356218T228	01	0	ALLOWANCE
218T.24	LIGHTING	EBB				
218V.	CTL RM EMG AIR IN STR		356218V	01	0	TWO SEISMIC CATEGORY I REINFORCED
				02	0	CONCRETE STRUCTURES SUPPORTED ON A 1 FT
				03	0	MAT AND CONSISTING OF EXTERIOR WALLS
				04	0	AND ROOF SLAB. DIMENSIONS ARE
				05	0	8 FT X 8 FT WITH A VOLUME OF
				06	0	700 CU. FT.
218V.1	BUILDING STRUCTURE					
218V.11	EXCAVATION WORK					
218V.111	EARTH EXCAVATION	GCA12				
218V.112	ROCK EXCAVATION	GCA3				
218V.113	CONCRETE FILL	GEC1				
218V.114	BACKFILL	GCC12				
218V.115	PUMPING	GCB				
218V.116	CHAIN LINK FENCE (7' HIGH)	GJC				
218V.13	SUBSTRUCTURE CONCRETE					
218V.131	FORMWORK	GEA21				
218V.132	REINF. STEEL	GEB11				
218V.133	CONCRETE	GEC21				
218V.134	EMBEDDED STEEL	GE02				

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EQUIPMENT LIST - REPORT 2

MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
218V.135	FLOOR FINISH	GEE2				
218V.136	WATERPROOFING	GEF				
218V.137	CONSTRUCTION JOINTS	GEG				
218V.138	RUBBING CONCRETE SURFACES	GEE1				
218V.139	WIRE FABRIC	GEB3				
218V.2	BUILDING SERVICES					
218V.22	EMERG. O.A. DUCT (UNDERGRND)	MBB6				
218V.28	INSTRUMENTATION + CONTROLS	MID1				
22 .	REACTOR PLANT EQUIPMENT					
220A.	NUCLEAR STEAM SUPPLY (NSSS)		356220A	01	0	STANDARD SCOPE GENERAL ELECTRIC SIXLOOP
				02	0	3000 MW(T) PEBBLE BED GAS COOLED
				03	0	REACTOR PLANT INCLUDING PCRV, REACTOR
				04	0	INTERNALS, CRDM'S, STEAM GENERATORS, CHE-
				05	0	MICAL PROCESS REFORMERS, MAIN CIRCULA-
				051	0	TORS, CORE AUXILIARY HEAT
				06	0	EXCHANGERS AND AUXILIARY CIRCULATORS,
				07	0	MAIN AND AUXILIARY CIRCULATOR SERVICE,
				08	0	HELIUM PURIFICATION, PCRV PRESSURE
				09	0	RELIEF SYSTEM COMPONENTS AND REACTOR
				10	0	MONITORING INSTRUMENTATION ALSO INCLU-
				11	0	DED IN THE NSSS SCOPE (INTERCONNECTING
				12	0	PIPING AND VALVES INCLUDED IN BOP
				13	0	SCOPE).
220A.1	QUOTED NSSS PRICE	MFE1				
220A.11	NSSS SUBTOTAL PRICE	MFE1				
220A.12	NSSS SUBTOTAL PRICE	MFE1				
220A.13	NSSS SUBTOTAL PRICE	MFE1				
220A.2	DISTRIBUTED NSSS COST					
220A.3	UNDISTRIBUTED NSSS COST	MFE1				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
220B.	NSSS OPTIONS	MFE1				
221.	REACTOR EQUIPMENT					
221.1	PCRV + ACCESSORIES					
221.11	PCRV SUPPORT		35622111			
				01	0	A SEISMIC CATEGORY I STRUCTURE CONSIST-
				02	3	ING OF A 30-FT DIAMETER CENTER CORE
				03	3	SUPPORT PEDESTAL AND AN 8-FT THICK
				04	3	ANNULAR RING SUPPORT. ONE OUTPUT FOR
				05	3	SPENT FUEL TRANSPORT CART AND TWO CUT-
				06	3	OUTS WITHIN THE RING SUPPORT PROVIDE
				07	3	ROUTING OF MAJOR PIPING TO/FROM THE
				08	3	STEAM GENERATORS AND REFORMERS. NO
				09	3	SHEAR BLOCK OR TENDON GALLERY REQUIRED.
221.111	CONCRETE WORK	GEA21				
221.1111	FORMWORK	GEA21				
221.1112	REINFORCING STEEL	GEB11				
221.1113	6500 PSI CONCRETE	GEC27				
221.1114	EMBEDDED STEEL	GED2				
221.1115	FLOOR FINISH	GEE2				
221.1116	WATERPROOFING	GEFX				
221.1117	RUBBING CONCRETE SURFACES	GEE1				
221.1118	CONSTRUCTION JOINTS	GEG				
221.112	STEEL SUPPORTS	GEB11				
221.113	MISCELLANEOUS STEEL	GFB4				
221.12	PCRV STRUCTURE					
221.121	BODY AND ATTACHMENTS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
221.1211	PRESTRESSED CONCRETE VES.	GEC2	3562211211	01	3	QUANTITY - 1 - GE SUPPLIED
				02	0	TYPE - THICK WALLED VESSEL,
				03	0	CYLINDRICAL CONCRETE
				04	0	STRUCTURE
				05	3	DIMENSIONS- 92 FEET 2 INCHES HIGH
				06	3	X 139 FEET 6 IN. DIA.
				07	0	INCLUDES A CORE CAVITY SURROUNDED BY
				08	0	SIX CYLINDRICAL CAVITIES THAT CONTAIN
				09	3	THE STEAM GENERATORS AND CIRCULATOR
				10	3	AND SIX CYLINDRICAL CAVITIES CONTAINING
				11	3	CHEMICAL PROCESSING REFORMERS. THERE
				12	3	ARE ALSO FOUR AFTER HEAT REMOVAL LOOP
				13	3	CAVITIES, TWO PRESSURE RELIEF VALVE
				14	3	WELLS.
221.12111	PCRV WIRE WINDING MACHINE	MFE1	35622112111	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO. DESCRIPTION
				03	0	-----
				04	3	WIRE WINDING MACHINE
				05	0	QUANTITY - 1
				06	3	LEASE ITEM FROM GE
221.12112	STEAM GENERATOR UPPER CLS.	MFE2	35622112112	01	3	GE SUPPLIED AND INSTALLED, INCLUDES
				02	0	CONCRETE REINFORCEMENT AND PRE-
				03	3	STRESSING.
221.12118	PCRV STRUCTURAL INSTRUMENT		35622112118	01	3	QUANTITY - 5 - GE SUPPLIED
				02	3	SIZE -
				03	3	WEIGHT -
				04	0	
				05	3	GE EQUIP TAG DESCRIPTION
				06	0	-----
				07	3	PCRV INSTRUMENT
				08	0	LOCATED IN TEMPORARY
				09	0	DATA ACQUISITION ROOM
				10	0	INTERNAL TO CONTAINMENT

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
221.1212	PCRV LINER SYSTEM	GIDX	3562211212	01	3	GE SUPPLIED AND INSTALLED, INCLUDES*
				02	0	EQUIPMENT NO. DESCRIPTION
				03	0	
				04	3	LINER CORE CAVITY - 1
				05	3	LINER STM.GENERATOR - 6
				06	3	LINER ASS'Y, AHRHE - 4
				07	3	LINER REFORMERS - 6
				08	3	LINER X-DUCTS - 1LOT
				09	3	LINER COMPONENTS,
				10	3	S/G UPPER CLOSURE - 6
				11	3	REFORMERS CLOSURE - 6
				12	3	PENE. ARRANGE. - 1LOT
221.1213	PCRV LINER COOLING SYSTEM	GIDX	3562211213	01	3	GE SUPPLIED AND INSTALLED, INCLUDES*
				02	0	EMBEDDED PIPING AS REQUIRED WITHIN
				03	0	PCRV TO COOL CAVITY LINERS AND
				04	0	PENETRATIONS.
221.122	PENETRATIONS AND CLOSURES	GIC	356221122	01	3	GE SUPPLIED AND INSTALLED, INCLUDES*
				02	3	REFUELING PENETRATIONS - 55
				04	0	HELIUM SUPPLY PENETRATIONS - 2
				05	0	GAS SEAL BUFFER DUCTS - 6
				06	0	SIDE ENTRY PENETRATIONS - 16
				07	0	PRESSURE RELIEF PENETRATIONS - 2
				08	0	NEUTRON DETECTOR WELLS - 7
				09	0	BOTTOM CAP PRESSURE TAP PENE. - 1
				10	0	TOP CAP PRESSURE TAP PENE - 1
				11	0	MATERIAL SURVEILLANCE WELLS - 2
				12	0	STORAGE WELLS (REFLECTOR) - 2
				13	0	STORAGE WELLS (CONTROL ROD) - 3
				14	0	PIPE CHASE LINERS - 8
				15	3	GE SUPPLIED COMPONENTS; BOP INSTALLED;
				16	3	CONCRETE PLUG LINER - 12
				17	0	HOLD DOWN PLATES - 51
				18	3	OMEGA SEALS - 12
				19	0	ELECT. AND INST. FEEDTHROUGHS - 400
221.123	PCRV SEAL SYSTEM	GIC	356221123	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO. DESCRIPTION
				03	0	
				04	3	SEAL TEST MODULE - 1
				05	3	SEAL TEST MODULE - 1
221.125	PCRV PRESSURE RELIEF SYS.					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
221.1255	PIPING					
221.12551	2 INCH + SMALLER					
221.125511	CS/SC 2	MBA1				
221.125512	CS/NNS	MBC1				
221.12552	2.5 INCH + LARGER					
221.125521	CS/NNS	MBD1				
221.1256	VALVES	MCA				
221.12562	CHECK	MCA2				
221.12563	GLOBE	MCA3				
221.1257	PIPING - MISC. ITEMS					
221.12571	HANGERS + SUPPORTS	MAA				
221.12572	INSULATION	MHA1				
221.12573	SPECIALTIES					
221.125731	NSSS PRESSURE-RELIEF	MCA5	356221125731	01	3	GE SUPPLIED AND INSTALLED, INCLUDES*
				02	0	EQUIPMENT NO. DESCRIPTION
				021	0	-----
				03	3	PCR V PRESS. RELIEF SYS.
				04	3	PCR V HE FILL MODULE
				05	3	PCR V RELIEF VALVE SERV.
				06	0	MODULE
221.1258	INSTRUMENTATION + CONTROL	MIA	3562211258	01	3	QUANTITY = 1-LOT GE SUPPLIED AS PART
				02	0	OF MODULE PACKAGES:
221.13	PCR V INTERNALS					
221.132	CORE SUPPORT STRUCTURE	MFET	356221132	01	3	GE SUPPLIED AND INSTALLED, INCLUDES*
				02	0	EQUIPMENT NO. DESCRIPTION
				021	0	-----

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
221.133	PERMANENT SIDE REFLECTORS	MFE1	356221133	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
221.134	CORE LATERAL RESTRAINT SYS	MFE1				
221.135	INTERNALS-1ST SHIFT-OT	MFE1				
221.136	INTERNALS-2ND SHIFT-RT	MFE1				
221.137	INTERNALS-2ND SHIFT-OT	MFE1				
221.138	THERMAL BARRIER	MFE1	356221138	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	PCRV THERMAL BARRIER
				04	0	AND ATTACHMENTS.
221.1381	THERMAL BARRIER-1ST SHIFT	MFE1				
221.1382	THERMAL BARRIER-2ND SHIFT	MFE1				
221.139	REACTOR CORE ELEMENTS					
221.1391	HEXAGONAL REFLECTOR ELEMTS	MFE1	3562211391	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
221.1392	PLENUM ELEMENTS	MFE1	3562211392	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
221.1393	NEUTRON SOURCE	MFE1	3562211393	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	NEUTRON SOURCE
				05	0	QUANTITY
221.14	TRANSPORT TO SITE	GXXX				
221.2	REACTIVITY CONTROL DEVICES					
221.21	CONTROL ROD SYSTEM					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
221.211	CRD ORIF. ASSBLY, PWR ROD DR	MFE6	356221211	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	3	DESCRIPTION
				04	0	CRD ORIFICING ASSEMBLY,
				05	3	POWER ROD DRIVE
						QUANTITY
221.212	CRD AND INSTRUMENT ASSBLY	MFE6	356221212	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	CONTROL ROD DRIVE AND
				05	0	INSTRUMENT ASSEMBLY
				06	3	QUANTITY
221.213	PENETRATION SHIELD PLUG	MFE1	356221213	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	PENETRATION SHIELD PLUG
				05	3	QUANTITY
221.214	IN-CORE FLUX MAPPING UNIT	MFE1	356221214	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	IN-CORE FLUX MAPPING
				05	0	UNIT
				06	3	QUANTITY

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	QUANTITY
221.215	CRD SERVICING EQUIPMENT	MFE6	356221215	01	3	GE SUPPLIED EQUIPMENT NO.	
				02	0	DESCRIPTION	
				021	0	-----	
				03	3	CONTROL ROD DRIVE	
				04	0	SERVICING EQUIPMENT	
				05	0	INCLUDING:	
				06	0	SHIELDING SLEEVE	
				07	0	AND SPLIT RING	
				08	0	SUPPORT LEDGE -	1
				09	0	CUTTING FIXTURE -	1
				10	0	RESERVE SHUTDOWN	
				11	0	MATERIAL REFILL	
				12	0	HOPPER -	1
				13	0	ORIFICE VALVE	
				14	0	DRIVE CABLE REMOVAL	
				15	0	FIXTURE AND CRIMPING	
				16	0	TOOL -	1
				17	0	SOURCE RANGE DET.	
				18	0	REMOVAL FIXTURE -	1
				19	0	SOURCE RANGE DET.	
				20	0	REPLACEMENT -	1
				21	0	IFMU DISPOSAL AND	
			356221215A	22	0	REPLACEMENT FIX.-	1
				23	0	CRD,RSVE,AND HFTA	
				24	0	SERVICE MACHINE -	1
				25	0	RESERVE SHUTDOWN	
				26	0	SUPPORT STAND -	1
				27	0	OPR CONTROL CON.-	1
				28	0	ADAPTER -	1
221.218	INSTRUMENTATION + CONTROL	MIAx	356221218	01	0	CONTROL ROD SYSTEM INSTRUMENTATION	
				02	0	INCLUDED IN SUB-ACCOUNTS:	
				021	0	OPERATORS CONSOLE - 227.111	
				03	0	CONTROL ROOM PANELS - 227.114	
				04	0	LOCAL CONTROL PANELS - 227.121	
				05	0	CRD SERVICING EQUIP - 221.215	
221.22	RESERVE SHUTDOWN SYS.						
221.222	RES. SHUTDOWN MATL.	MFE1	356221222	01	3	GE SUPPLIED EQUIPMENT NO.	
				02	0	DESCRIPTION	
				03	0	-----	
				04	3	RESERVE SHUTDOWN MAT.	
				05	3	QUANTITY-	

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

221.223	RESERVE SD TOOL SERV EQUIP	MFE6	356221223	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	RESERVE SHUTDOWN TOOL
				04	0	SERVICE EQUIPMENT
				05	0	INCLUDING:
				08	0	RESERVE SHUTDOWN
				09	0	MATERIAL REMOVAL
				10	0	HOPPER - 1
				11	0	TORQUE WRENCH - 1

221.228	INSTRUMENTATION + CONTROL	MIAX	356221228	01	0	RESERVE SHUTDOWN SYSTEM INSTRUMENTATION
				02	0	INCLUDED IN SUB-ACCOUNTS:
				03	0	LOCAL CONTROL PANELS - 227.121

222. MAIN HEAT TRANS SYS.

222.1 PRIMARY COOLANT SYSTEM

222.11 MAIN HELIUM CIRCULATORS

222.111 ROTATING MACHINERY

222.1111	CIRCULATOR COMPRESSOR	MFD2	3562221111	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	MAIN HELIUM CIRCULATOR
				04	0	MACHINE ASSY. - 6
				05	3	ELECTRIC MOTOR - 6
				06	3	INLET ASSY. - 6
				07	3	DIFFUSER ASSY. - 6
				08	3	ACTUATOR ASSY. - 18
				09	3	FLOW RESTRICTOR ASSY. - 6
				10	3	VALVE GUIDE ASSY. - 6

222.1113	CIRCULATOR HANDLING EQUIP	MFE1	3562221113	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	MAIN CIRCULATOR HAND.
				05	0	EQUIPMENT
				06	0	QUANTITY - 1 LOT
				07	3	LEASED ITEM

222.116 VALVES

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
222.12	PRIM.COOLANT PIPING SYSTEM					
222.126	PRIMARY COOLANT VALVES					
222.1261	MAIN PRIM.COOLANT SHUTOFF	MCAX	3562221261	01	3	GE SUPPLIED, INCLUDED IN ACCT. 222.1111
222.128	INSTRUMENTATION + CONTROL	MIA	356222128	01	3	QUANTITY - 18 - GE SUPPLIED
				02	0	SIZE- 73IN X 12IN X 16IN
				03	0	WEIGHT- 280 LBS
				04	0	
				05	3	GE EQUIP TAG
				06	0	DESCRIPTION
				07	3	PRI COOLANT XMTR RACK
				08	0	CONTN TOP HEAD AREA = 6
				09	3	PRI COOLANT XMTR RACK
				10	0	CONTN TOP HEAD AREA = 6
				11	3	PRI COOLANT XMTR RACK
				12	0	CONTN TOP HEAD AREA = 6
				13	0	
222.13	STEAM GENERATOR EQUIP.					
222.132	HEAT TRANSFER EQUIP.					
222.1321	STEAM GENERATORS	MFE2	3562221321	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	STEAM GEN UNIT
				04	0	INCLUDING:
				05	0	MAIN STEAM MODULE - 6
				07	0	STEAM GENERATOR PENETRA
				08	0	TIONS, INCLUDING:
				09	3	MAIN STEAM
				13	0	O.D. MAN ACCESS FEED
				14	0	WATER = 12
222.1322	STEAM GENERATOR SPEC.EQUIP		3562221322	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	S/G EES SHIP. CONT. = 3
				06	0	THE ABOVE EQUIPMENT
				07	3	ARE LEASED.

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
222.138	INSTRUMENTATION + CONTROL	MIA	356222138	01	3	QUANTITY - 4 - GE SUPPLIED
				02	0	SIZE: 2FT X 3FT X 8FT EACH
				03	0	WEIGHT: 700 LBS EACH
				04	0	
				05	3	GE EQUIP TAG DESCRIPTION
				06	0	
				07	3	S/G + AHRHE TEMP INSTR BOX - 2
				08	3	S/G STRAIN GAGE JUNC BOX - 1
				09	3	AHRHE STRAIN GAGE
				10	0	JUNCTION BOX - 1
				11	0	
				12	3	QUANTITY - 30 T/C BOXES - GE SUPPLIED
				13	0	SIZE: 12 X 6 X 12 INCHES EACH
				14	0	WEIGHT: 15 LBS EACH
				15	0	
				151	3	GE EQUIP TAG DESCRIPTION
				152	0	
				16	3	STM GEN INLET T/C BOX - 12
				17	3	STM GEN INLET T/C BOX - 12
				18	3	STM GEN INLET T/C BOX - 6
				19	0	
				20	0	ALSO SEE ACCOUNT 227.12

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222.15	MAIN CIRC. SERV. SYS.					
222.155	PIPING					
222.1551	2 IN. + SMALLER					
222.15511	SS/NNS		MBC2			
222.15512	CS/NNS		MBC1			
222.15513	SS/SC 3		MBA2			
222.1552	2.5 IN. + LARGER					
222.15521	SS/NNS		MBD2			
222.15522	CS/NNS		MBD1			
222.15523	SS/SC 3		MBB2			
222.156	VALVES		MCA			

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
222.1563	GLOBE	MCA3				
222.157	PIPING - MISC. ITEMS					
222.1571	HANGERS & SUPPORTS	MAA				
222.158	INSTRUMENTATION + CONTROL	MIA	356222158	01	3	CIRCULATION SERVICE SYSTEM
				011	0	
				012	3	QUANTITY - 14 - GE SUPPLIED
				02	0	SIZE: 44 X 12 X 16 INCHES EACH
				03	0	WEIGHT: 150 LBS EACH EXCEPT AS NOTE
				04	0	
				05	3	GE EQUIP TAG
				06	0	DESCRIPTION
				07	3	
				08	0	REACTOR FIELD XMTR RACK- 1
				09	3	34 X 12 X 16 INCHES-80 LB
				10	0	MAIN LOOP FIELD XMTR RACK
				11	3	CONTN TOP HEAD AREA- 6
				12	0	MAIN LOOP FIELD XMTR RACK
				13	3	CONTN BTM HEAD AREA- 6
				14	0	MAIN LOOP FIELD XMTR RACK
				15	0	CONTN BTM HEAD AREA- 1
				16	0	
				17	0	ALSO SEE ACCOUNT 227.113
222.159	FOUNDATIONS/SKIDS					
222.1591	BEARING WATER MODULE	MFA1	3562221591	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	BEARING WATER MODULES
				04	0	QUANTITY - 6
222.1592	LP SEPRTR/HELIUM COMPR MOD	MFD2	3562221592	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	LOW PRESSURE HELIUM/
				04	0	HELIUM COMP. MODULE
				05	0	QUANTITY - 1

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
222.1593	HELIUM DRYER MODULE	MF14	3562221593	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0	-----	-----
				03	3		HELIUM DRYER MODULE
				04	0		QUANTITY 1
222.1594	SHUTDOWN BEARING WATER MOD	MFC1	3562221594	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0	-----	-----
				03	3		SHUTDOWN BEARING WATER
				04	0		MODULE
				05	0		QUANTITY 6
222.1595	ANCILLARY VALVE MODULES	MCA	3562221595	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0	-----	-----
				03	3		ANCILLARY VALVE MODULE
				04	0		QUANTITY 6
222.1596	BACK-UP BRG. WATER MODULE	MFE1	3562221596	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0	-----	-----
				03	3		BACK-UP BEARING WATER
				04	0		MODULE
				05	0		QUANTITY 1
222.16	ORIFICE CNTRL + INDICATION		35622216	01	3	GE SUPPLIED	
222.168	INSTRUMENTATION + CONTROL	M1AX	356222168	01	0	SEE ACCOUNT 227.121	
222.88		MGB3					
223.	SAFEGUARDS COOL. SYS.						
223.1	AFTER HT REMOVAL SY (AHR)						
223.11	AUXILIARY CIRCULATOR	MFB4					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
223.111	AHR CIRC. ASSEMBLY		356223111	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	MACHINE ASSEMBLY - 4
				05	3	INLET ASSEMBLY - 4
				06	3	DIFFUSER ASSEMBLY - 4
				07	3	BELLOWS ASSEMBLY - 4
				08	3	LIMIT STOP ASSEMBLY - 4
223.112	AHR CIRC. MOTOR		356223112	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	800 HP SQUIRREL CAGE
				05	0	INDUCTION MOTOR
223.113	AHR CIRC MOTOR CONTROLLER	EEA1	356223113	01	3	QUANTITY: 4 ASSEMBLIES - GE SUPPLIED
				02	0	SIZE: W X D X H
				03	3	INVERTERS 4 CABINETS 5 X 5 X 8FT EA
				04	0	RECTIFIER 1 CABINET 4 X 5 X 8FT
				05	0	TRANSFORM 1 CABINET 4 X 5 X 8FT
				06	3	WEIGHT: 31000 LBS EACH ASSEMBLY
				07	0	
				08	3	GE EQUIP TAG
				09	0	DESCRIPTION
				10	3	AUX CIRCULATOR MOTOR
				11	3	CONTROLLER 4
223.12	HEAT TRANSFER EQUIP.					
223.121	AFT HT REMVL HT EX (AHRHE)	MFB2	356223121	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	AFTER HEAT REMOVAL
				04	3	HEAT EXCHANGERS
				05	3	QUANTITY - 4
				06	3	INCLUDES AHRHE ASSEMBLY,
				07	0	RESTRAINER RINGS, AND
				08	0	ALL REQUIRED SEALS AND
				09	0	BOLTS FOR BOP INSTALLATION.
				10	0	

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

223.122	AHRHE SPEC. EQUIP	MFE1	356223122	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	0	DESCRIPTION
				04	3	AHRHE SHIPPING
				05	3	CONTAINERS LEASED 4
				06	3	AHRHE UPENDING FIXT. 1

223.16 VALVES

223.161	AHR LOOP SHUTOFF VALVES	MCA	356223161	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				03	3	DESCRIPTION
				04	0	AHRHE LOOP SHUTOFF
				05	3	VALVES
						QUANTITY - 4

223.18	INSTRUMENTATION + CONTROL	MIA	35622318	01	3	QUANTITY - 12 GE SUPPLIED
				02	0	SIZE + WEIGHT:
				03	3	60 X 12 X 16 IN. - 240 LBS
				04	3	69 X 12 X 16 IN. - 280 LBS
				05	3	50 X 12 X 16 IN. - 200 LBS
				06	3	34 X 12 X 16 IN. - 120 LBS
				07	0	
				08	3	GE EQUIP TAG
				09	0	DESCRIPTION
				10	3	AHR LOOP FIELD XMTR RACK-4
				11	3	AHR LOOP FIELD XMTR RACK-4
				12	3	AHR LOOP FIELD XMTR RACK-4
				13	0	
				14	0	RACKS LOCATED IN CONTN TOP HEAD AREA
				15	0	
				16	0	ALSO SEE ACCOUNTS 227.113 + 227.114
				17	0	

223.2 AHR CIPC.SERV. SYSTEM

223.25 PIPING

223.251 2 IN. + SMALLER

223.2511 CS/SC 2 MBA1

223.26 VALVES MCA

223.262 CHECK/STOP-CHECK MCA2

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
223.263	GLOBE	MCA3				
223.265	RELIEF	MCA5				
223.27	PIPING - MISC. ITEMS					
223.271	HANGERS & SUPPORTS	MAA				
223.28	INSTRUMENTATION & CONTROL	MIA				
223.29	FOUNDATIONS/SKIDS					
223.291	SERVICE MODULE	MFI	356223291	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	AHR CIRCULATOR
				04	0	SERVICE MODULE
				05	3	QUANTITY = 4
223.292	OIL ADSORBER MODULE	MFI1	356223292	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	AHR CIRCULATOR
				04	0	OIL ADSORBER MODULE
				05	0	QUANTITY = 1
223.293	BEARING OIL MODULE	MFI8	356223293	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	AHR CIRCULATOR
				04	0	BEARING OIL MODULE
				05	0	QUANTITY = 1
223.294	AHR CIRC COOLNG WTR MODULE	MFB	356223294	01	3	QUANTITY = 4
				02	0	
				03	0	INCLUDES: SKID MOUNTED PUMPS, HEAT
				04	0	EXCHANGER, SURGE TANKS AND GAS TRAPS
				05	0	FOR LEAK DETECTION.
				06	3	HEAT EXCHANGER - 1/2 INCH TUBES WITH A
				07	3	SURFACE AREA OF 125 SQ. FT. TWO 100X
				08	3	CAPACITY 3HP PUMPS EXPANSION TANK
				09	3	100 GALLONS
223.3	AHR COOL. WTR. SYS.					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
223.31	ROTATING MACHINERY						
223.311	PRIMARY PUMP + MOTOR	MFA1					
223.3111	EMERGENCY PUMP	MFA2	3562233111	01	3	QUANTITY -	8 X 50 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	HORIZONTAL
				04	3	FLOW	1354 GPM
				041	0	SPEED -	
				05	3	TDH	100 FT
				051	3	BHP	48
				052	3	NPSH	10
				06	0	EFFICIENCY -	70 PCT
				07	3	DESIGN PRESS -	1900 PSIA
				08	3	DESIGN TEMP -	750 F
				09	0	MATERIAL -	CS
				10	0	SAFETY CLASS -	3
				11	0	SEISMIC CAT -	I
				12	3	DESIGN CODE -	ASME III
223.3112	EMERGENCY PUMP MOTOR	EHXX	3562233112	01	3	QUANTITY -	8 X 50 PCT
				02	0	TYPE -	AC MOTOR, SQUIRREL CAGE
				03	3	HORSEPOWER -	50 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460V, 3 PHASE, 60 HZ
223.312	NORMAL PUMP + MOTOR	MFA1					
223.3121	NORMAL PUMP	MFA2	3562233121	01	3	QUANTITY -	8 X 50 PCT
				011	3		(TOTAL SYS. CAPACITY)
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	HORIZONTAL
				04	3	FLOW	338 GPM
				041	0	SPEED -	
				05	3	TDH -	100 FT
				051	3	BHP -	12
				06	3	NPSH	10 FT
				07	0	EFFICIENCY -	70 PCT
				08	3	DESIGN PRESS -	1900 PSIG
				09	3	DESIGN TEMP -	750 F
				10	0	MATERIAL -	CS
				11	0	SAFETY CLASS -	3
				12	0	SEISMIC CAT -	I
				13	3	DESIGN CODE -	ASME III

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
223.3122	NORMAL PUMP MOTOR	EHXX	3562233122	01	3	QUANTITY - 8
				02	0	TYPE - AC MOTOR, SQUIRREL CAGE
				03	3	HORSEPOWER - 15 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460V, 3 PHASE, 60 HZ
223.313	MAKEUP PUMP + MOTOR	MFA1				
223.3131	MAKEUP PUMP	MFA2				
223.3132	MAKEUP PUMP MOTOR	EHDX				
223.32	HEAT TRANSFER EQUIPMENT					
223.321	AIR BLAST HEAT EXCHR.	MF84	356223321	01	3	QUANTITY - 4 X 50 PCT
				011	3	NO. OF FINNED TUBES - 1036
				012	3	TOTAL TUBE LENGTH - 46620 FT
				013	3	NO. OF TUBE BANES - 259
				02	3	HEAT LOAD - 96 E+06 BTU/HR
				03	3	FLOW RATE - 1354 GPM
				04	0	DESIGN PRESS - 200 PSIG
				05	3	DESIGN TEMP - 400 F
				06	3	NO. OF FANS - 3 EACH
				07	3	FAN HORSEPOWER - 40 HP EACH
				08	0	VOLTAGE - 460V, 3 PHASE, 60HZ
				09	0	MATERIAL - CS
				10	3	SAFETY CLASS - 3
				11	0	SEISMIC CAT - I
				12	3	DESIGN CODE - ASME III

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
223.322	STEAM FED HEAT EXCHR.	NFB2	356223322	01	3	QUANTITY = 4 (CUSTOMER OPTION)
				02	0	TYPE -
				03	0	ORIENTATION -
				04	0	HEAT LOAD 12 E+06 BTU/HR
				05	0	SURFACE AREA -
				06	0	SHELL CONDITION:
				07	0	DES. PRESS/TEMP = 1900 PSIG/750 F
				08	0	TEMP IN/OUT - 240/208 F
				09	0	FLOW RATE - 1.3 E+05 LB/HR
				10	0	MATERIAL - CS
				11	0	SAFETY CLASS - 3
				12	3	DESIGN CODE - ASME III
				13	0	TUBE CONDITION:
				14	0	QUANTITY -
				15	0	SIZE -
				16	0	DES. PRESS/TEMP = 1900PSIG/700 F
				17	0	TEMP IN/OUT - 80 F/200 F
				18	0	FLOW RATE 200 GPM
				19	0	MATERIAL - CS
				20	0	SAFETY CLASS - 3
				21	3	DESIGN CODE - ASME III
				22	0	SEISMIC CAT. - I
223.33	TANKS + PRESSURE VESSELS					
223.331	PRESSURIZER	MFC1	356223331	01	3	QUANTITY - 4 X 50 PCT
				02	0	ORIENTATION - VERTICAL
				03	3	DIMENSIONS- 4 DIA X 12 FT HIGH
				031	3	WALL THICKNESS- 3.5 IN.
				04	3	VOLUME - 45,000 GAL
				05	3	DESIGN PRESS 200 PSIG
				06	3	DESIGN TEMP - 400 F
				07	0	MATERIAL - CARBON STEEL
				08	3	WEIGHT - 27,000 LBS
				09	0	SEISMIC CAT. - I
				10	3	DESIGN CODE - ASME III

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
223.332	NITROGEN ACCUMULATOR	MFC1	356223332	01	3	QUANTITY- 4 X 50 PCT
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS -
				04	0	VOLUME -
				05	0	DESIGN PRESS - 2500 PSIG
				06	0	DESIGN TEMP - 140 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - 3
				09	0	SEISMIC CAT. - I
				10	3	DESIGN CODE - ASME III
223.34	PURIFICATION+FILTRATION EQ					
223.341	STRAINER	MFH1	356223341	01	3	QUANTITY- 4 X 50 PCT
				02	0	TYPE - DUPLEX
				03	0	FLOW RATE 3050 GPM
				04	0	DESIGN PRESS - 1900 PSIG
				05	0	DESIGN TEMP - 140 F
				06	0	DIFF. PRESS
				07	0	CLEAN/DIRTY - 10 PSI/
				08	0	RATING/SIZE -
				09	0	MATERIAL - CS
				10	0	DIRT CAPACITY -
				11	0	SAFETY CLASS - 3
				12	0	SEISMIC CAT. - I
				13	3	DESIGN CODE - ASME III
223.342	CHEMICAL CONTROL PACKAGE		356223342	01	3	INCLUDES: TANKS, FILTERS, DEMINERALIZERS,
				02	3	VALVES, INTERNAL PIPING AND
				03	3	INSTRUMENTATION.
				04	3	SIZE -
				05	3	QUANTITY - 1 X 100 PCT
				06	3	FLOW RATE - 50 GPM
				07	3	MATERIAL - CS
				08	3	SAFETY CLASS - NNS
				09	3	SEISMIC CAT. -
				10	0	DESIGN TEMP - 140 F
				11	0	MATERIAL - CS
				12	0	SAFETY CLASS - 3
				13	0	SEISMIC CAT. - I
				14	0	DESIGN CODE -
223.35	PIPING					
223.351	2 IN. + SMALLER					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
223.3511	CS/SC 2	MBA1				
223.3512	CS/SC 3	MBA1				
223.352	2.5 IN. + LARGER					
223.3521	CS/SC 2	MBB1				
223.3522	CS/SC 3	MBB1				
223.36	VALVES	MCA				
223.361	GATE	MCA1				
223.362	CHECK/STOP-CHECK	MCA2				
223.363	GLOBE	MCA3				
223.365	RELIEF	MCA5				
223.37	PIPING-MISC. ITEMS					
223.371	HANGERS + SUPPORTS	MAA				
223.372	INSULATION	MHA1				
223.373	SPECIALTIES	MAB3				
223.38	INSTRUMENTATION + CONTROL	MIA				
223.39	FOUNDATION/SKIDS					
223.391	CHEMISTRY CONTROL PACKAGE	MF15	356223391	01	0	EACH UNIT INCLUDES: DEMINERALIZER,
				02	0	CHEMICAL ADDITIVE TANK, RESIN FILL
				03	0	HOPPER, PIPING, VALVES AND
				04	0	INSTRUMENTATION + CONTROLS.
				06	3	QUANTITY - 4 X 50 PCT
				08	0	FLOW RATE - 20 GPM
				09	0	MATERIAL - CS
				10	0	SAFETY CLASS - NNS
				11	0	SEISMIC CAT. - NONE
224.	RAD WASTE PROCESSING					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.1	LIQUID WASTE MANAGEMENT		3562241	02	0	INCLUDES DRAINS AND COLLECTION HEADERS IN RCB AND RSB.
				03	0	
224.11	ROTATING MACHINERY					
224.111	PERMEATE PUMP + MOTOR	MFA1				
224.1111	PERMEATE PUMP	MFA2	3562241111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CANNED CENTRIFUGAL
				03	0	ORIENTATION -
				04	0	FLOW RATE - 50 GPM
				05	0	SPEED -
				06	0	TDM - 200 FT
				07	0	BHP -
				08	0	NPSH - 15 FT @ 104 F
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS - 15 PSIG
				11	0	DESIGN TEMP - 200 F
				12	0	MATERIAL - SS TYPE 316
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
224.1112	PERMEATE PUMP MOTOR	EHXX	3562241112	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 3 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
224.112	WASTE TRANSFER PUMP+MOTOR	MFA1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
224.1121	WASTE TRANSFER PUMP	MFA2	3562241121	01	0	QUANTITY -	2 X 100 PCT
				02	0	TYPE -	CANNED CENTRIFUGAL
				03	0	ORIENTATION -	
				04	0	FLOW RATE -	50 GPM
				05	0	SPEED -	
				06	0	TDH -	200 FT
				07	0	BHP -	
				08	0	NPSH -	15 FT @ 104 F
				09	0	EFFICIENCY -	
				10	0	DESIGN PRESS -	15 PSIG
				11	0	DESIGN TEMP -	200 F
				12	0	MATERIAL -	SS TYPE 316
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
224.1122	WASTE TRANSFER PUMP MOTOR	EHXX	3562241122	01	0	QUANTITY -	2
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER -	3 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
224.113	HOLD-UP TRANS PUMP + MOTOR	MFA1					
224.1131	HOLD-UP TRANSFER PUMP	MFA2	3562241131	01	0	QUANTITY -	1 X 100 PCT
				02	0	TYPE -	CANNED CENTRIFUGAL
				03	0	ORIENTATION -	
				04	0	FLOW RATE -	50 GPM
				05	0	SPEED -	
				06	0	TDH -	200 FT
				07	0	BHP -	
				08	0	NPSH -	15 FT @ 104 F
				09	0	EFFICIENCY -	
				10	0	DESIGN PRESS -	15 PSIG
				11	0	DESIGN TEMP -	200 F
				12	0	MATERIAL -	SS TYPE 316
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
224.1132	HOLD-UP TRANS PUMP MOTOR	EHXX	3562241132	01	0	QUANTITY -	1
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER -	3 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

224.114	HI ACT WASTE TRANS PMP+MTR	MFA1				
224.1141	HI ACT WASTE TRANSFER PUMP	MFA2	3562241141	01	0	QUANTITY - 1
				02	0	TYPE - CANNED CENTRIFUGAL
				03	0	ORIENTATION -
				04	0	FLOW RATE - 50 GPM
				05	0	SPEED -
				06	0	TDH - 200 FT
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS - 15 PSIG
				11	0	DESIGN TEMP - 200 F
				12	0	MATERIAL - SS TYPE 316
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
224.1142	HI ACT WASTE TRANS PMP MTR	EHXX	3562241142	01	0	QUANTITY - 1
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 3 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
224.115	BRINE CUT TANK PUMP+MOTOR	MFA1				
224.1151	BRINE CUT TANK PUMP	MFA2	3562241151	01	0	QUANTITY - 1
				02	0	TYPE - CANNED CENTRIFUGAL
				03	0	ORIENTATION -
				04	0	FLOW RATE - 50 GPM
				05	0	SPEED -
				06	0	TDH - 200 FT
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS - 15 PSIG
				11	0	DESIGN TEMP - 200 F
				12	0	MATERIAL - SS TYPE 316
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.1152	BRINE CUT TANK PUMP MOTOR	EHXX	3562241152	01	0	QUANTITY - 1
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 3 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
224.116	SLURRY COLLECT TNK PMP+MTR	MFA1				
224.1161	SLURRY COLLECT TANK PUMP	MFA2	3562241161	01	0	QUANTITY - 1
				02	0	TYPE - CANNED CENTRIFUGAL
				03	0	ORIENTATION -
				04	0	FLOW RATE - 50 GPM
				05	0	SPEED -
				06	0	TDH - 200 FT
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 200 F
				12	0	MATERIAL - SS TYPE 316
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
224.1162	SLURRY COLLECT TNK PMP MTR	EHXX	3562241162	01	0	QUANTITY - 1
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 3 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
224.117	RLW SUMP PUMP + MOTOR	MFA1				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.1171	RLW SUMP PUMP	MFA2	3562241171	01	0	QUANTITY - 9
				02	0	TYPE - CANNED CENTRIFUGAL
				03	0	ORIENTATION -
				04	0	FLOW RATE - 50 GPM
				05	0	SPEED -
				06	0	TDH - 100 FT
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 200 F
				12	0	MATERIAL - SS TYPE 316
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
224.1172	RLW SUMP PUMP MOTOR	EHXX	3562241172	01	0	QUANTITY - 9
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 3 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
224.13	TANKS + PRESSURE VESSELS					
224.131	HOLD-UP TANK	MFC1	356224131	01	0	QUANTITY - 2 X 100 PCT
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS -
				04	3	VOLUME - 3240 GAL
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 200 F
				07	0	MATERIAL - SS TYPE 304
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -
224.132	PERMEATE TANK	MFC1	356224132	01	0	QUANTITY - 2 X 100 PCT
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS -
				04	3	VOLUME - 3240 GAL
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 200 F
				07	0	MATERIAL - SS TYPE 304
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.133	WASTE COLLECTION TANK	MFC1	356224133	01	0	QUANTITY - 2 X 100 PCT
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS -
				04	3	VOLUME - 4260 GAL
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 200 F
				07	0	MATERIAL - SS TYPE 304
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -
224.134	BRINE CUT TANK	MFC1	356224134	01	0	QUANTITY - 1
				02	0	ORIENTATION -
				03	0	DIMENSIONS -
				04	3	VOLUME - 1410 GAL
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 200 F
				07	0	MATERIAL - SS TYPE 304
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -
224.135	HI ACT WASTE COLLECT TANK	MFC1	356224135	01	0	QUANTITY - 1
				02	0	ORIENTATION -
				03	0	DIMENSIONS -
				04	3	VOLUME - 220 GAL
				05	0	DESIGN PRESS - 150 PSIG
				06	0	DESIGN TEMP - 200 F
				07	0	MATERIAL - SS TYPE 316
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -
224.136	SLURRY COLLECTION TANK	MFC1	356224136	01	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS -
				04	3	VOLUME - 1410 GAL
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 200 F
				07	0	MATERIAL - SS TYPE 304
				08	0	SAFETY CLASS -
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -

224.14 PURIFICATION + FILTRATION

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.141	REVERSE OSMOSIS UNIT	MFH4	356224141	01	0	INCLUDES: HIGH PRESSURE FEED PUMP, INSTRUMENTATION, CONTROLS, AND ASSOCIATED PIPING AND VALVES.
				02	0	
				03	0	
				05	0	QUANTITY - 1
				06	0	TYPE -
				07	0	FLOW RATE - 10 GPM
				08	0	% WATER RECOVERY - 85 TO 90 PCT
				09	3	DESIGN PRESS -
				10	0	DESIGN TEMP - 150 F
				11	0	DECONTAMINATN FACTR - 100 OR GREATER
				12	0	OUTPUT CONDUCTIVITY - 50 MICROMHOS/CM
				13	0	MATERIAL - 304 OR 316 SS
				14	0	SAFETY CLASS - NNS
				15	0	SEISMIC CAT - NONE
				16	0	DESIGN CODE -
224.142	RAD LIQ WASTE FILTER UNIT	MFH1	356224142	01	0	INCLUDES: 2 FILTER VESSELS WITH FILTER ELEMENT ASSEMBLIES, 1 BACKWASH PRESSURE TANK WITH RELIEF PROTECTION, INSTRUMENTATION, CONTROLS AND ASSOCIATED PIPING AND VALVES.
				02	0	
				03	0	
				04	0	
				05	0	
				07	0	QUANTITY - 1
				08	0	TYPE -
				09	0	FLOW RATE - 50 GPM (25 GPM/FILTER)
				10	3	DESIGN PRESS -
				11	0	DESIGN TEMP - 200 F
				12	0	DIFF. PRESS:
				13	0	CLEAN/DIRTY - 15 PSID/55 PSID
				14	0	RATING/SIZE - 98 PCT/5 MICRON+LARGER
				15	0	MATERIAL - 304 OR 316 SS
				16	0	HOLDING CAP'Y -
				17	0	SAFETY CLASS - NNS
				18	0	SEISMIC CAT - NONE
				19	0	DESIGN CODE -

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.143	RLW DEMIN UNIT/SKID	MFH2	356224143	01	0	INCLUDES: 3 DEMINERALIZER VESSELS,
				02	0	RESIN FILL HOPPER, RESIN TRAPS,
				03	0	INSTRUMENTATION, CONTROLS AND
				04	0	ASSOCIATED PIPING AND VALVES.
				06	0	QUANTITY - 1
				07	0	TYPE -
				08	0	FLOW RATE - 75 GPM (25 GPM PER
				09	0	DEMINERALIZER)
				10	0	DESIGN PRESS - 150 PSIG
				11	0	DESIGN TEMP - 150 F
				12	0	OUTPUT CONDUCTVY - 50 MICROMHOS/CM
				13	0	OUTPUT TURBIDITY - LESS THAN 0.1 PPM
				14	0	MATERIAL -
				15	0	SAFETY CLASS - NNS
				16	0	SEISMIC CAT - NONE
				17	0	DESIGN CODE -
224.15	PIPING					
224.151	2IN. + SMALLER					
224.1511	SS/NNS	MBC2				
224.152	2.5 IN. + LARGER					
224.1521	SS/NNS	MBD2				
224.16	VALVES	MCA				
224.169	SPECIAL VALVES					
224.1691	THREE-WAY	MCA9				
224.17	PIPING-MISC					
224.171	HANGERS + SUPPORTS	MAA				
224.18	INSTRUMENTATION + CONTROL	MIA				
224.19	FOUNDATIONS/SKIDS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.191	RLW SOLID. INJECT. UNIT	MFH	356224191	01	0	INCLUDES: STORAGE TANKS FOR SOLIDIFICATION AGENT AND CATALYST WITH RESPECTIVE TRANSFER PUMPS, 1 DEWATERING PUMP FOR SHIPPING CASK, 1 RLW TRANSFER PUMP, INSTRUMENTATION, CONTROLS AND ASSOCIATED PIPING AND VALVES. QUANTITY - 1 TYPE - DESIGN PRESS - 15 PSIG DESIGN TEMP - 200 F MATERIAL - 304 OR 316 SS SAFETY CLASS - NNS SEISMIC CAT - NONE DESIGN CODE -
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				09	0	
				10	0	
				11	0	
				12	0	
				13	0	
				14	0	
				15	0	
				16	0	
224.2	GASEOUS WASTE MANAGEMENT		3562242	04	0	
				05	3	
				06	0	
				07	0	
224.21	ROTATING MACHINERY					
224.211	RGW COMPRESSOR MODULE	MFD2	356224211	01	3	G.E. SUPPLIED EQUIPMENT NO. DESCRIPTION ----- RADIOACTIVE GAS WASTE COMPRESSOR MODULES QUANTITY 3
				02	0	
				021	0	
				03	3	
				04	3	
224.23	TANKS + PRESSURE VESSELS					
224.231	RGW VACUUM TANK MODULE	MFC1	356224231	01	3	G.E. SUPPLIED EQUIPMENT NO. DESCRIPTION ----- RADIOACTIVE GAS WASTE VACUUM TANK MODULE QUANTITY 1
				02	0	
				021	0	
				03	3	
				04	0	
224.232	RGW SURGE TANK	MFC1	356224232	01	3	G.E. SUPPLIED EQUIPMENT NO. DESCRIPTION ----- RADIOACTIVE GAS WASTE SURGE TANKS QUANTITY 2
				02	0	
				021	0	
				03	3	
				04	3	
				05	0	

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
224.233	RGW PROCESS MODULE	MFC1	356224233	01	3	G.E. SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	RADIOACTIVE GAS WASTE
				04	0	PROCESS MODULE
				05	0	QUANTITY - 1
224.25	PIPING					
224.251	2 IN. + SMALLER					
224.2511	CS/NNS	MBC1				
224.2512	CS/SC 3	MBA1				
224.252	2.5 IN. + LARGER					
224.2521	CS/NNS	MBD1				
224.2522	CS/SC 3	MBB1				
224.26	VALVES	MCA	35622426	01	3	INCLUDED WITH G.E. SUPPLIED MODULES
224.27	PIPING-MISC					
224.271	HANGERS + SUPPORTS	MAA				
224.28	INSTRUMENTATION + CONTROL	MIAX	35622428	01	0	SEE ACCOUNT 227.123
224.3	SOLID WASTE MANAGEMENT		3562243	01	0	ALLOWANCE
224.38	INSTRUMENTATION & CONTROL	MIA				
224.39	FOUNDATIONS/SKIDS					
224.391	RSW COMPACTOR	GHB2	356224392	01	0	QUANTITY - 1
				02	0	TYPE - STANDARD COMMERCIAL UNIT
				03	0	PHYSICAL SIZE - 4 FT X 4 FT
				04	0	WEIGHT - 1500 LBS (APPROX)
225.	FUEL HNDLG DISTR + STRG SY					
225.1	NEW FUEL STORAGE					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
225.11	NEW FUEL STORAGE TANKS		35622511	01	0	FOUR TANKS SIZED TO CONTAIN A MINIMUM OF 250,000 NEW FUEL PEBBLES. TANKS ARE DESIGNED IN ACCORDANCE WITH ASME B&PV CODE, SECTION III, CLASS 3, DESIGNED FOR 30 PSI PRESSURE. THE TANKS ARE PROVIDED WITH INLET NOZZLES, OUTLET NOZZLES, MANWAYS, AND HELIUM GAS CONNECTIONS.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
225.111	FUEL STORAGE HOIST	GHB2				
225.112	FUEL LOADING CRANE	GHB2				
225.113	FORK LIFT TRUCK	MFJ2				
225.12	NEW FUEL TRANSPORT PIPE SY		35622512	01	0	PIPING, FUEL PEBBLE FEEDER, PEBBLE COUNTER WITH SUPPORTS.
				02	0	
225.2	NEW FUEL TRANSPORT SY					
225.21	NEW FUEL TRANSPORTER		35622521	01	0	REMOTE OPERATED NEW FUEL TRANSPORTER COMPLETE WITH ELECTRIC MOTOR DRIVE
				02	0	
225.22	NEW FUEL TRANSPORT CONTNER		35622522	01	0	VERTICAL TANK WITH ELLIPSOIDAL HEADS WITH BRACKETS FOR ATTACHING TO NEW FUEL TRANSPORTER. TANK IS SIZED TO CONTAIN A MINIMUM OF 3000 NEW FUEL PEBBLES. THE IS DESIGNED IN ACCORDANCE WITH THE ASME B&PV CODE, SECTION III, CLASS 3, FOR 30 PSI PRESSURE. THE TANK IS FURNISHED WITH SIX-INCH INLET AND OUTLET NOZZLES EACH EQUIPPED WITH SOLENOID OPERATED GATE VALVES AND MECHANICAL OPERATED NOZZLE CONNECTORS.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				08	0	
				09	0	
				10	0	
				11	0	
225.3	NEW FUEL DISTRIBUTION SY					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
225.31	NEW FUEL CONTAINERS		35622531	01	0	THREE VERTICAL TANKS WITH HEMISPHERICAL HEADS AND SUPPORTS. TANKS ARE EACH DESIGNED TO CONTAIN A MINIMUM OF 3000 NEW FUEL PEBBLES. THE TANKS ARE DESIGNED IN ACCORDANCE WITH THE ASME B&PV CODE, SECTION III, CLASS 2, FOR 1400 PSI PRESSURE. THE TANKS ARE FURNISHED WITH SIX-INCH INLET AND OUTLET NOZZLES, THE TOP NOZZLE HAVING A SOLENOID OPERATED GATE VALVE AND SPECIAL NOZZLE ADAPTER
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				08	0	
				09	0	
				10	0	
225.32	NEW FUEL PRIMARY DISTR SY		35622532	01	0	THREE SYSTEMS CONSISTING OF PIPING, FUEL PEBBLE FEEDERS, AND FUEL PEBBLE COUNTERS WITH DISTRIBUTION PIPING
				02	0	
				03	0	
225.33	SECONDARY CNTNR AND DSTRTR		35622533	01	0	SEVEN VERTICAL TANKS, EACH CONTAINING A FUEL PEBBLE DISTRIBUTION MECHANISM TO PLACE FUEL IN ANY ONE OF SIX OUTLET DISTRIBUTION PIPES. THE TANK IS DESIGN IN ACCORDANCE WITH THE ASME B&PV CODE, SECTION III, CLASS 2, FOR 1400 PSI PRESSURE. THE TANK WILL HAVE ONE SIX-SIX-INCH INLET NOZZLE AND SIX-SIX-INCH OUTLET NOZZLES. THE OUTLET PIPES WILL EACH HAVE A PRESSURE SAFETY VALVE, ISOLATION VALVE, AND A FUEL PEBBLE COUNTER.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				08	0	
				09	0	
				10	0	
				11	0	
225.4	SPENT FUEL DISCHARGE SYS.					
225.41	DISCHARGE PIPING SYS	MFJ1	35622541	01	0	TWELVE PIPING SYSTEMS TO DIRECT FUEL PEBBLES FROM THE SEVERALIZER TO THE SPENT FUEL ELEMENT SEPARATOR. THE SYSTEM INCLUDES A PRESSURE SAFETY VALVE AND THREE SOLENOID OPERATED GATE VALVES. DESIGN IS IN ACCORDANCE WITH THE ASME B&PV CODE, SECTION III, FOR 1400 PSI PRESSURE
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				08	0	

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
225.42	SPENT FUEL ELEMENT SEPRTOR		35622542	01	0	TWELVE SPENT FUEL ELEMENT SEPRTORS,
				02	0	MOTOR DRIVEN, TO SEPARATE DAMAGED FUEL
				03	0	PEBBLES FROM FUEL DISCHARGED FROM PORV.
				04	0	THE UNIT IS DESIGNED IN ACCORDANCE WITH
				05	0	THE ASME B&PV CODE, SECTION III, FOR 1400
				06	0	PSI PRESSURE, THE SEPRTOR IS FURNISHED
				07	0	WITH DISCHARGE PIPING SYSTEM, DAMAGED
				08	0	FUEL PELLETS DISCHARGED TO A DAMAGED
				09	0	FUEL CONTAINER; UNDAAGED FUEL TO SPENT
				10	0	FUEL CONTAINER AND INCLUDES A SPENT
				11	0	FUEL PEBBLE COUNTER.
225.43	SPENT FUEL CONTAINER		35622543	01	0	TWELVE VERTICAL TANKS, SIZED TO CONTAIN
				02	0	A MINIMUM OF 9000 SPENT FUEL PEBBLES.
				03	0	THE TANKS ARE DESIGNED IN ACCORDANCE
				04	0	WITH THE ASME B&PV CODE, SECTION III, FOR
				05	0	1400 PSI PRESSURE, THE TANKS ARE EQUIP-
				06	0	PED WITH A SIX-INCH DISCHARGE NOZZLE
				07	0	AND SOLENOID OPERATED GATE VALVE. A SPE-
				08	0	CIAL ADAPTER FITTING IS PROVIDED ON THE
				09	0	DOWNSTREAM SIDE OF THE VALVE.
225.44	DAMAGED SPENT FUEL CONTNER		35622544	01	0	TWELVE VERTICAL TANKS, SIZED TO CONTAIN
				02	0	A MINIMUM OF 500 DAMAGED FUEL PELLETS.
				03	0	THE TANKS ARE DESIGNED IN ACCORDANCE
				04	0	WITH THE ASME B&PV CODE, SECTION III, FOR
				05	0	1400 PSI PRESSURE, THE TANKS ARE EQUIP-
				06	0	PED WITH A SIX-INCH DISCHARGE NOZZLE
				07	0	AND SOLENOID OPERATED GATE VALVE. A SPE-
				08	0	CIAL ADAPTER FITTING IS PROVIDED ON THE
				09	0	DOWNSTREAM SIDE OF THE VALVE
225.45	SPENT FUEL TRANSPORT SYS					
225.451	SPENT FUEL TRANSPORTER		356225451	01	0	REMOTE OPERATED SPENT FUEL TRANSPORTER
				02	0	COMPLETE WITH ELECTRIC MOTOR DRIVE.

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
225.452	FUEL TRANSPORT CONTAINER		356225452	01	0	VERTICAL TANK WITH ELLIPSOIDAL HEADS
				02	0	WITH BRACKETS FOR ATTACHING TO SPENT
				03	0	FUEL TRANSPORTER. TANK IS SIZED TO CON-
				04	0	TAIN A MINIMUM OF 3000 SPENT FUEL PEB-
				05	0	BLES. THE TANK IS DESIGNED IN ACCORDANCE
				06	0	WITH THE ASME B&PV CODE SECTION III,
				07	0	CLASS 3, FOR 30 PSI PRESSURE. THE TANK IS
				08	0	FURNISHED WITH SIX INCH INLET AND OUT-
				09	0	LET NOZZLES EACH EQUIPPED WITH SOLENOID
				10	0	OPERATED GATE VALVES AND MECHANICAL
				11	0	OPERATED NOZZLE CONNECTORS.
225.5	FUEL POOL COOLING SYSTEM					
225.51	ROTATING MACHINERY					
225.511	FUEL POOL COOLING PUMP+MTR	MFA1				
225.5111	FUEL POOL COOLING PUMP	MFA2	3562255111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 815 GPM
				05	0	SPEED -
				06	0	TDH - 110 FT
				07	0	BHP - 32 HP
				08	0	NPSH - 30 FT
				09	0	EFFICIENCY - 70 PCT
				10	0	DESIGN PRESS - 150 PSIG
				11	0	DESIGN TEMP - 250 F
				12	0	MATERIAL - CARBON STEEL
				13	0	SAFETY CLASS - 3
				14	0	SEISMIC CAT. - I
				15	0	DESIGN CODE -
225.5112	FUEL POOL COOLING PUMP MTR	EH	3562255112	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 40 HP
				04	0	SPEED -
				05	0	VOLTAGE -
225.512	HEAT TRANSFER EQUIPMENT					

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

225.5121	FUEL POOL COOLING EXCHGR	MFB2	3562255121	01	0	QUANTITY - 2 X 50 PCT
				02	0	TYPE - SHELL AND U-TUBE
				03	0	ORIENTATION -
				04	0	HEAT LOAD - 4.7 E+06 BTU/HR
				05	0	SURFACE AREA -
				06	0	SHELL CONDITION:
				07	0	DES. PRESS/TEMP - 150 PSIG/200 F
				08	0	TEMP IN/OUT - 150 F / 120 F
				09	0	FLOW RATE - 350 GPM
				10	0	MATERIAL - CARBON STEEL
				11	0	SAFETY CLASS - 3
				12	0	DESIGN CODE -
				13	0	TUBE CONDITION:
				14	0	QUANTITY - 905
				15	0	SIZE - 3/4 IN.
				16	0	DES. PRESS/TEMP - 150 PSIG/150 F
				17	0	TEMP IN/OUT - 95 F / 115 F
				18	0	FLOW RATE - 470 GPM
				19	0	MATERIAL -
				20	0	SAFETY CLASS - 3
				21	0	DESIGN CODE -
				22	0	SEISMIC CAT. - 1

225.513 PURIFICATION + FILTRATION

225.5131	CHEMICAL CONTROL PACKAGE	MF15	3562255131	01	0	INCLUDES: TANKS, FILTERS, DEMINERALIZERS,
				02	0	VALVES, INTERNAL PIPING AND
				03	0	INSTRUMENTATION
				04	0	
				05	0	QUANTITY - 1 X 100 PCT
				06	0	FLOW RATE - 50 GPM
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. -

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MODEL 356 - 0000 MWE/3000 NWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
225.5132	PUMP SUCTION STRAINER	MFH1	3562255132	01	0	QUANTITY 1 X 100 PCT
				02	0	TYPE - DUPLEX
				03	0	FLOW RATE -
				04	0	DESIGN PRESS - 150 PSIG
				05	0	DESIGN TEMP - 200 F
				06	0	DES. DIFF. PRESS - 10 PSID
				08	0	RATING/SIZE -
				09	0	MATERIAL - CARBON STEEL
				10	0	HOLDING CAP'Y -
				11	0	SAFETY CLASS - 3
				12	0	SEISMIC CAT. - I
				13	0	DESIGN CODE -

225.514 PIPING

225.5141 2 IN. + SMALLER

225.51411 CS/SC 3 MBA1

225.51412 CS/NNS MBC1

225.5142 2.5 IN. + LARGER

225.51421 CS/SC 3 MBB1

225.515 VALVES MCA

225.5151 GATE MCA1

225.5152 CHECK MCA2

225.5153 GLOBE MCA3

225.5155 RELIEF MCA5

225.5156 BUTTERFLY

225.516 PIPING-MISC. ITEMS

225.5161 HANGERS + SUPPORTS MAA

225.5162 INSULATION MHA1

225.5163 SPECIALTIES MAB3

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
225.517	INSTRUMENTATION + CONTROL	MIA				
226.	OTHER REACTOR PLANT EQUIP					
226.1	INERT GAS SYSTEMS					
226.11	GASEOUS NITROGEN SYS	MFI4	35622611	01	0	CENTRALIZED NNS DISTRIBUTION SYSTEM
				011	0	INCLUDING STORAGE TANKS AND COMPRESSORS
				02	0	WITH INDIVIDUAL SAFETY CLASS STORAGE
				03	0	TANKS TO MEET THE FOLLOWING REQ'TS:
				04	3	4 NITROGEN ACCUMULATORS
				06	0	2 RPCW ACCUMULATORS
				08	3	61 MCSS SHUTDOWN BEARING WTR MODULES
				10	0	1 COMPRESSOR PACKAGE
				11	3	1 BULK STORAGE TANK
226.3	COOLNT RECVNG,STG + MAKEUP					
226.31	HELIUM STOR + TRANSF SYS					
226.311	ROTATING MACHINERY					
226.3111	HEL STG TRANSFER COMPRSSRS	MFD2				
226.31111	COMPRESSORS	MFD2	35622631111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - 3 STAGE, 2 THROW,
				021	0	NON-LUBRICATED
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 2800 SCFM
				05	0	SUCTION PRESS - 50 PSIA
				06	0	DISCHRG PRESS - 450 PSIA
				07	0	SPEED -
				08	0	BHP -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS -
				11	0	DESIGN TEMP -
				111	3	COOLING WATER -
				12	0	MATERIAL -
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.31112	COMPRESSOR MOTORS	EHXX	35622631112	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 725 HP
				04	0	SPEED -
				05	0	VOLTAGE - 4160 V, 3 PHASE, 60 HZ
226.3112	HEL STG SUPPLY COMPRESSORS	MFD2				
226.31121	COMPRESSORS		35622631121	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - 2 STAGE, NON-LUBRICATED
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 16.7 SCFM
				05	0	SUCTION PRESS - 50 PSIA
				06	3	DISCHARGE PRESS -
				07	0	SPEED -
				08	0	BHP -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS -
				11	0	DESIGN TEMP -
				111	3	COOLING WATER -
				12	0	MATERIAL -
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
226.31122	COMPRESSOR MOTORS	EHXX	35622631122	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	3	HORSEPOWER -
				04	0	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
226.313	TANKS + PRESSURE VESSELS					
226.3131	HELIUM STOPAGE TANKS	MFC3	3562263131	01	0	QUANTITY - 48
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS -
				04	0	VOLUME - 4010 CU FT (30,000 GAL)
				05	0	DESIGN PRESS - 250 PSIG
				06	0	DESIGN TEMP - 175 F
				07	0	MATERIAL - CARBON STEEL
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - ASME VIII

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.3132	HELIUM SUPPLY TANKS	MFC1	3562263132	01	0	QUANTITY - 5
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS -
				04	0	VOLUME - 105 CU FT (785 GAL)
				05	3	DESIGN PRESS -
				06	0	DESIGN TEMP - 175 F
				07	0	MATERIAL - CARBON STEEL
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - ASME VIII
226.315	PIPING					
226.3151	2 IN. + SMALLER					
226.31511	CS/NNS	MBC1				
226.3152	2.5 IN. & LARGER					
226.31521	CS/NNS	MBD1				
226.316	VALVES	MCA				
226.317	PIPING-MISC. ITEMS					
226.3171	HANGERS & SUPPORTS	MAA				
226.3172	INSULATION	MHA2				
226.3173	SPECIALTIES	MABX				
226.318	INSTRUMENTATION + CONTROL	MID				
226.5	COOLANT PURIF + CHEM TREAT					
226.51	HELIUM PURIFICATION					
226.513	TANKS + PRESSURE VESSELS					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.5131	HEL. PURIF. TRANSFER TANK	MFC1	3562265131	01	0	QUANTITY = 1
				02	0	ORIENTATION = VERTICAL
				03	0	DIMENSIONS =
				04	0	VOLUME =
				05	0	DESIGN PRESS =
				06	0	DESIGN TEMP =
				07	0	MATERIAL = CARBON STEEL
				08	0	SAFETY CLASS = 3
				09	0	SEISMIC CAT. = 1
				10	0	DESIGN CODE =

226.515 PIPING

226.5151 2 IN. + SMALLER

226.51511 SS/SC 3 MBA2

226.51512 CS/SC 3 MBA1

226.51513 CS/NNS MBC1

226.51514 SS/NNS MBC2

226.5152 2.5 IN. + LARGER

226.51521 CS/SC 3 MBB1

226.51522 CS/NNS MBD1

226.516 VALVES MCA

226.5162 CHECK MCA2

226.5163 GLOBE MCA3

226.5165 RELIEF MCA5

226.517 PIPING-MISC. ITEMS

226.5171 HANGERS + SUPPORTS MAA

226.5172 INSULATION MHA1

226.5173 SPECIALTIES MAB3

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.518	INSTRUMENTATION + CONTROL	MIA	356226518	01	0	HELIUM PURIFICATION + CHEMICAL TREATMNT
				02	0	SEE ACCOUNT 227.123
226.519	FOUNDATIONS/SKIDS					
226.5191	HIGH TEMPERATURE ADSORBER	MFI	3562265191	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	HELIUM PURIFICATION SYS
				04	3	HIGH TEMP. ADSORBER
				05	0	QUANTITY 2
226.5192	OXIDIZER COOLER MODULE	MFB6	3562265192	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	HELIUM PURIFICATION SYS
				04	0	OXIDIZER COOLER MODULE
				05	0	QUANTITY 1
226.5193	DRYER MODULE	MFG6	3562265193	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	HELIUM PURIFICATION SYS
				04	0	DRYER MODULE
				05	0	QUANTITY 1
226.5194	PURIFIED HEL. COMPRSSR MOD	MFB2	3562265194	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	HELIUM PURIFICATION SYS
				04	3	PURIFIED HE COMP MODULE
				05	0	QUANTITY 2
226.5195	REGENERATION MODULE	MFI4	3562265195	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	HELIUM PURIFICATION SYS
				04	0	REGENERATION MODULE
				05	0	QUANTITY 1

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
226.5196	REGEN. OXIDIZER MODULE	MF14	3562265196	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0		
				03	3		HELIUM PURIFICATION SYS
				04	0		REGEN OXIDIZER MODULE
				05	0		QUANTITY - 1
226.5197	LOW TEMP. ADSORBER	MF1	3562265197	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0		
				03	3		HELIUM PURIFICATION SYS
				04	0		LOW TEMP ADSORBER MOD.
				05	0		QUANTITY - 1
226.5198	HIGH TEMPERATURE FILTERS	MFE1	3562265198	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0		
				03	3		HELIUM PURIFICATION SYS
				04	3		HIGH TEMP. FILTERS
				05	3		QUANTITY 10
226.5199	HI TEMP FIL/ADSB SERV EQP	MFE1	3562265199	01	3	GE SUPPLIED	
				02	0	EQUIPMENT NO.	DESCRIPTION
				021	0		
				03	3		HIGH TEMP FILTER ABSOR-
				04	0		BER SERVICE EQUIPMENT
				05	0		INCLUDING:
				06	0		GRAPPLE-CARTRIDGE
				07	0		HANDLING - 1
				08	0		TELESCOPING SLEEVE
				09	0		ASSY.AND GRAPPLE = 1
226.52	LIQUID NITROGEN SYS		35622652	01	0	ONE 100 PCT. NNS SYSTEM PER REACTOR	
				02	0	PLANT EQUIPPED WITH ONE RECONDENSER	
				03	0	PACKAGE, ONE PHASE SEPARATOR/STORAGE	
				04	0	TANK AND TWO 100 PCT PUMPS. FOR A TWIN	
				05	0	UNIT SITE THE SYSTEMS ARE CROSS-CONNEC-	
				06	0	TED FOR ADDITIONAL RELIABILITY.	
226.521	ROTATING MACHINERY						
226.5211	LN PUMP + MOTOR	MF14					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.52111	LN PUMP		35622652111	01	0	QUANTITY = 2
				02	0	TYPE = CRYOGENIC, LN SERVICE
				03	0	FLOW = 1,200 LB/HR AT (-)320F
				04	0	DESIGN PRESS = 150 PSIG
				05	0	DESIGN TEMP = (-)320 F
				06	0	SAFETY CLASS = NNS
				07	0	SEISMIC CAT. = NONE
				08	0	DESIGN CODE = ASME VIII
226.52112	LN PUMP MOTOR		35622652112	01	0	QUANTITY = 2
				02	0	TYPE = (BY SYSTEM VENDOR)
				03	0	HORSEPOWER = (BY SYSTEM VENDOR)
				04	0	SPEED = (BY SYSTEM VENDOR)
				05	0	VOLTAGE = (BY SYSTEM VENDOR)
226.522	HEAT TRANSFER EQUIPMENT					
226.5221	NITROGEN RECONDENSER	MFB4	3562265221	01	0	QUANTITY = 1 (UNIT 1 ONLY)
				02	0	TYPE = (BY SYSTEM VENDOR)
				03	0	HEAT LOAD = 65,000 BTU/HR
				04	0	SAFETY CLASS = NNS
				05	0	SEISMIC CAT. = NONE
				06	0	DESIGN CODE = ASME VIII
226.523	TANKS + PRESSURE VESSELS					
226.5231	PHASE SPRTG STORAGE TANK	MFC1	3562265231	01	0	QUANTITY = 1
				02	0	ORIENTATION = HORIZONTAL
				03	0	DIMENSIONS = (BY SYSTEM VENDOR)
				04	0	VOLUME = 10,000 GAL
				05	0	DESIGN PRESS = 25 PSIG
				06	0	DESIGN TEMP = (-)320 F
				07	0	MATERIAL = STAINLESS STEEL
				08	0	SAFETY CLASS = NNS
				09	0	SEISMIC CAT. = NONE
				10	0	DESIGN CODE = ASME VIII
				11	0	VACUUM JACKETED = (BY SYSTEM VENDOR)
226.525	PIPING					
226.5253	SPECIAL PIPING					
226.52531	CRYOGENIC PIPING	MBD2				
226.526	VALVES	MCA				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

226.5261 CRYOGENIC VALVES
 226.52612 CHECK
 226.52613 GLOHE
 226.52615 SAFETY/RELIEF
 226.527 PIPING-MISC. ITEMS
 226.5271 HANGERS + SUPPORTS
 226.5272 INSULATION
 226.5273 SPECIALTIES
 226.528 INSTRUMENTATION + CONTROL
 226.6 LEAK DETECTION SYSTEMS
 226.61 MOISTURE MONITORING SYS
 226.611 ROTATING MACHINERY

MAA
 MHA2
 MAB3
 MID

ACCOUNT NUMBER	ITEM	AUX SORT	REF. NUMBER	01	02	021	03	04	05	GE SUPPLIED EQUIPMENT NO.	DESCRIPTION
226.6111	COMPRESSOR MODULE	MFD2	3562266111	3	0	0	3	0	0		MOISTURE MONITOR SYSTEM COMPRESSOR MODULE
											QUANTITY = 1

226.613 TANKS + PRESSURE VESSELS

ACCOUNT NUMBER	ITEM	AUX SORT	REF. NUMBER	01	02	021	03	04	05	GE SUPPLIED EQUIPMENT NO.	DESCRIPTION
226.6131	ACCUMULATOR TANK	MFC1	3562266131	3	0	0	3	0	0		MOISTURE MONITOR SYSTEM ACCUMULATOR TANK
											QUANTITY = 1

226.615 PIPING

226.6151 2 IN. + SMALLER

226.61511 CS/SC 2 MBA1

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.61512	SS/SC 2	MBA2				
226.61513	SS/NNS	MBC2				
226.6152	2.5 IN. + LARGER	MBXX				
226.616	VALVES	MCA				
226.6162	CHECK					
226.6163	GLOBE					
226.6165	RELIEF					
226.617	PIPING-MISC.					
226.6171	HANGERS & SUPPORTS	MAA				
226.619	FOUNDATIONS/SKIDS					
226.6191	HYGROMETER MODULE	MFI	3562266191	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	
				03	3	
				04	3	
				05	0	
226.7	AUXILIARIES COOLING SYS					
226.71	NUCLEAR SERVICE WATER SYS					
226.711	ROTATING MACHINERY					
226.7111	NSW PUMP + MOTOR	MFA1				

DESCRIPTION
 MOISTURE MONITOR SYSTEM
 HYGROMETER MODULES
 QUANTITY - 2

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
226.71111	NSW PUMP	MFA2	35622671111	01	0	QUANTITY -	2 X 100 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	VERTICAL
				04	3		6200 GPM
				05	0	SPEED -	
				06	0	TDH -	100 FT
				07	3	BHP	
				08	3	NPSH	36 FT
				09	3	EFFICIENCY -	70 PCT
				10	0	DESIGN PRESS -	150 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	SS
				13	0	SAFETY CLASS -	3
				14	0	SEISMIC CAT. -	I
				15	3	DESIGN CODE -	ASME III
226.71112	NSW PUMP MOTOR	EHXX	35622671112	01	0	QUANTITY -	2
				02	0	TYPE -	AC, SQUIPREL CAGE
				03	3	HORSEPOWER -	250 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460V, 3 PHASE, 60HZ
226.712	HEAT TRANSFER EQUIPMENT						

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.7121	NUC SERV WATER COOLING TWR	MFB1	3562267121	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - MECHANICAL DRAFT
				03	0	FILL - CERAMIC TILE
				04	3	HEAT LOAD - 77 X 10 E06 BTU/HR
				05	3	FLOW RATE - 6200 GPM
				06	3	WET BULB TEMP - 74 F
				07	3	DRY BULB TEMP - 99 F
				08	3	APPROACH
				09	3	NO. OF FANS -
				10	3	FAN DIAMETER -
				11	0	AIR FLOW RATE -
				12	0	FAN MOTOR:
				13	0	TYPE -
				14	3	HORSEPOWER -
				15	0	SPEED -
				16	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
				17	3	CELL SIZE
				18	3	TOWER HEIGHT -
				19	3	STACK HEIGHT -
				20	0	SAFETY CLASS - 3
				21	0	SEISMIC CAT. - I
				22	3	DESIGN CODE - ASME III
226.715	PIPING					
226.7151	2 IN. + SMALLER					
226.71511	CS/SC 3	MBA1				
226.7152	2.5 IN. + LARGER					
226.71521	CS/SC3	MBB1				
226.71522	CS/NSS	MBD1				
226.716	VALVES	MCA				
226.717	PIPING-MISCELLANEOUS ITEMS					
226.7171	HANGERS + SUPPORTS	MAA				
226.7172	INSULATION	MHA1				
226.7173	SPECIALTIES	MAB3				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
226.718	INSTRUMENTATION + CONTROL	MIA					
226.72	REACTOR PLANT COOLNG WATER						
226.721	ROTATING MACHINERY						
226.7211	RPCW PUMP + MOTOR	MFA1					
226.72111	RPCW PUMP	MFA2	35622672111	01	0	QUANTITY -	4 X 100 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	4800 GPM
				05	0	SPEED -	
				06	0	TDH -	200 FT
				07	0	BHP	
				08	0	NPSH	
				09	0	EFFICIENCY -	70 PCT
				10	0	DESIGN PRESS -	150 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	
				13	0	SAFETY CLASS -	3
				14	0	SEISMIC CAT. -	I
				15	0	DESIGN CODE -	ASME III
226.72112	RPCW PUMP MOTOR	EHXX	35622672112	01	0	QUANTITY -	4
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER	375 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	4KV, 3 PH, 60 HZ
226.722	HEAT TRANSFER EQUIPMENT						

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.7221	AUX. STEAM HEATER	MFB	3562267221	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - STEAM HEATER
				03	0	ORIENTATION -
				04	0	HEAT LOAD - 3.2 E+05 BTU/HR
				05	0	SURFACE AREA -
				06	0	SHELL CONDITION:
				07	0	DES. PRESS/TEMP - 200 PSIG / 600 F
				08	0	TEMP IN/OUT - 240 F / 210 F
				09	0	FLOW RATE - 331 LBS/HR
				10	0	MATERIAL -
				11	0	SAFETY CLASS - 3
				12	0	DESIGN CODE - ASME III
				13	0	TUBE CONDITION:
				14	0	QUANTITY -
				15	0	SIZE -
				16	0	DES. PRESS/TEMP - 250 PSIG / 250 F
				17	0	TEMP IN/OUT - 40 F / 100 F
				18	0	FLOW RATE - 200 GPM
				19	0	MATERIAL -
				20	0	SAFETY CLASS - 3
				21	0	DESIGN CODE - ASME III
				22	0	SEISMIC CAT. - I
226.7222	RPCW HEAT EXCHANGER	MFB	3562267222	01	0	QUANTITY - 4 X 50 PCT
				02	0	TYPE - COUNTER FLOW
				03	0	ORIENTATION -
				04	0	HEAT LOAD - 36 X 10 E+06 BTU/LR
				05	0	DIMENSIONS -
				06	0	SHELL CONDITION:
				07	0	DES. PRESS/TEMP - 250 PSIG / 250 F
				08	0	TEMP IN/OUT - 135 F / 105 F
				09	0	FLOW RATE - 2400 GPM
				10	0	MATERIAL -
				11	0	SAFETY CLASS - 3
				12	0	DESIGN CODE -
				13	0	TUBE CONDITION:
				14	0	QUANTITY -
				15	0	SIZE -
				16	0	DES. PRESS/TEMP - 250 PSIG / 250 F
				17	0	TEMP IN/OUT - 95 F / 115 F
				18	0	FLOW RATE - 3600 GPM
				19	0	MATERIAL -
				20	0	SAFETY CLASS - 3
				21	0	DESIGN CODE - ASME III
				22	0	SEISMIC CAT. - I

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MODEL 356 - 0000 MWE/3000 MWT HYGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.723	TANKS + PRESSURE VESSELS					
226.7231	SURGE TANK	MFC1	3562267231	01	0	QUANTITY - 2 X 100 PCT
				02	0	ORIENTATION -
				03	0	DIMENSIONS -
				04	0	VOLUME - 2200 GAL
				05	0	DESIGN PRESS - 250 PSIG
				06	0	DESIGN TEMP - 250 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - 3
				09	0	SEISMIC CAT. - I
				10	0	DESIGN CODE - ASME III
226.724	PURIFICATION + FILTRATION					
226.7241	CHEMICAL CONTROL PACKAGE	MFIS	3562267241	01	0	INCLUDES: TANKS, FILTERS, DEMINERALIZERS,
				02	0	VALVES, INTERNAL PIPING AND
				03	0	INSTRUMENTATION
				04	0	
				05	0	QUANTITY - 2 X 100 PCT
				06	0	FLOW RATE - 50 GPM
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	DESIGN CODE - ASME VIII
226.725	PIPING					
226.7251	2 IN. + SMALLER					
226.72511	CS/SC 3		MBA1			
226.72512	CS/NNS		MBC1			
226.7252	2.5 IN. + LARGER					
226.72521	CS/SC 3		MBB1			
226.72522	CS/NNS		MBD1			
226.726	VALVES		MCA			
226.7261	GATE		MCA1			
226.7262	CHECK		MCA2			

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.7263	GLOBE	MCA3				
226.7265	RELIEF	MCA5				
226.727	PIPING-MISC. ITEMS					
226.7271	HANGERS + SUPPORTS	MAA				
226.7272	INSULATION	MHA1				
226.7273	SPECIALTIES	MAB3				
226.728	INSTRUMENTATION	MIA				
226.73	DIESEL COOLING WATER SYS					
226.731	ROTATING MACHINERY					
226.7311	DIESEL CW PUMP + MOTOR	MFA1				
226.732	HEAT TRANSFER EQUIPMENT					
226.74	NSS PROCESS COOL. WTR- SYS					
226.741	ROTATING MACHINERY					
226.7411	NPC PUMP + MOTOR	MFA1				
226.74111	NPC PUMP		35622674111	01	0	QUANTITY-
				02	0	TYPE-
				03	0	ORIENTATION-
				04	0	FLOW RATE -
				05	0	SPEED-
				06	0	TDH-
				07	0	BHP -
				08	0	NPSH-
				09	0	EFFICIENCY
				10	0	DESIGN PRESS-
				11	0	DESIGN TEMP-
				12	0	MATERIAL-
				13	0	SAFETY CLASS-
				14	0	SEISMIC CAT-
				15	0	DESIGN CODE-

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
226.74112	NPC PUMP MOTOR		35622674112	01	0	QUANTITY-	2
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER	15 HP
				04	0	SPEED-	
				05	0	VOLTAGE -	460 V, 3 PH, 60 HZ
226.7412	NPC CHILLER + MOTOR		MFR5				
226.74121	CHILLER		35622674121	01	0	QUANTITY-	2 X 100 PCT
				02	0	TYPE-	HERMETIC CENTRIFUGAL
				03	0	COOLING CAP'Y-	200 TONS
				04	0	POWER RATING-	170 KW
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
				06	0	CHILLED WATER:	
				07	0	FLOW RATE -	215 GPM
				08	0	TEMP IN/OUT-	80 F / 60 F
				09	0	CONDENSER WATER:	
				10	0	FLOW RATE -	620 GPM
				11	0	TEMP IN/OUT-	95 F / 105 F
				12	0	SAFETY CLASS	NNS
				13	0	SEISMIC CAT. -	NONE
				14	3	DESIGN CODE -	ASME VIII, TEMA
226.74122	CHILLER MOTOR		35622674122	01	0	QUANTITY-	2
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER -	215 HP
				04	0	SPEED-	
				05	0	VOLTAGE-	
226.743	TANKS + PRESSURE VESSELS						
226.7431	SURGE TANK	MFC1	3562267431	01	0	QUANTITY-	2 X 100 PCT
				02	0	ORIENTATION-	
				03	0	DIMENSIONS-	
				04	0	VOLUME-	150 GAL
				05	0	DESIGN PRESS-	150 PSIG
				06	0	DESIGN TEMP-	150 F
				07	0	MATERIAL-	CS
				08	0	SAFETY CLASS-	NNS
				09	0	SEISMIC CAT. -	NONE
				10	3	DESIGN CODE -	ASME VIII
226.745	PIPING						
226.7451	2 IN. + SMALLER						

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.74512	CS/NNS	MBC1				
226.7452	2.5 IN. + LARGER					
226.74522	CS/NNS	MBD1				
226.746	VALVES	MCA				
226.7461	GATE					
226.7463	GLOBE					
226.7465	RELIEF					
226.747	PIPING-MISC. ITEMS					
226.7471	HANGERS + SUPPORTS	MAA				
226.7472	INSULATION					
226.7473	SPECIALTIES					
226.748	INSTRUMENTATION	MIA				
226.8	MAINTENANCE EQUIPMENT					
226.81	REMOTELY CONTROLLED TOOLS	MFM2				
226.82	RADIOACTIVE MAINT FACIL	MFM2				
226.83	PORTABLE SHIELDING	MFM2				
226.84	TOOLS & EQUIP FOR REACT VE	MFM2				
226.85	CORE-TOOLS + FIXTURES	MFM2				
226.86	DECONTAM SYS+EQPT SERV FAC					
226.862	HEAT TRANSFER EQUIPMENT					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.8621	HOT AIR HEATER	MFR1	3562268621	01	0	QUANTITY = 1
				02	0	TYPE = ELECTRIC
				03	0	HEAT LOAD =
				04	0	FLOW RATE =
				05	0	SAFETY CLASS = NNS
				06	0	SEISMIC CAT. = NONE
226.865	PIPING					
226.8651	2 IN. + SMALLER					
226.86511	SS/NNS		MBC2			
226.86512	CS/NNS		MBC1			
226.8652	2.5 IN. + LARGER					
226.86521	SS/NNS		MBD2			
226.866	VALVES		MCA			
226.8663	GLOBE					
226.8668	PLUG		MCA8			
226.867	PIPING-MISC. ITEMS					
226.8671	HANGERS & SUPPORTS		MAA			
226.8672	INSULATION		MHA1			
226.8673	SPECIALTIES		MAB3			
226.86731	SPRAY NOZZLES	MFM	35622686731	01	0	QUANTITY = 4
				02	0	FLOW RATE = 50 GPM
226.86732	STEAM CLEANER	MFM				
226.86733	HAND LANCES	MFM	35622686733	01	0	QUANTITY = 4
				02	0	FLOW RATE = 50 GPM
				03	0	
				04	0	EACH INCLUDES 25 FT OF FLEXIBLE HOSE

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
226.86734	WATER CURTAIN	MFM	35622686734	01	3	CONSISTS OF 300 NOZZLES, EACH WITH A CAPACITY OF 0.01 GPM @ 40 PSIG AND A SPRAY ANGLE OF 65 DEGREES
				02	3	
				03	3	
226.86735	CASK DECON NOZZLES	MAB3	35622686735	01	0	QUANTITY 4 ROWS X 20 NOZZLES EA. FLOW RATE 25 GPM/ ROW
				02	0	
226.868	INSTRUMENTATION + CONTROL	MIA				
226.869	FOUNDATIONS/SKIDS					
226.8691	CHEM CONTROL PACKAGE	MF15	3562268691	01	0	INCLUDES: PUMP, TANKS, VALVES, STEAM EDUCTOR, INLINE MIXER, AND REMOTE CONTROL PANEL. QUANTITY - 1 PUMP: QUANTITY - 1 TYPE - CANNED ROTOR FLOW RATE - 50 GPM TDH - 200 PSI SAFETY CLASS - NNS TANKS: QUANTITY - 4 VOLUME - 100 GAL MATERIAL - SS DESIGN CODE - ASME VIII STEAM EDUCTOR: QUANTITY - 1 INLET DIAM - 1 IN. OUTLET DIAM - 2 IN. INLINE MIXER: QUANTITY - 1 SIZE - 2 IN.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				08	0	
				09	0	
				10	0	
				11	0	
				12	0	
				13	0	
				14	0	
				15	0	
				16	0	
			3562268691A	25	0	
				26	0	
				27	0	
				28	0	
				29	0	
				30	0	
				31	0	

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.8692	RESF CRANE	GHR2	3562268692	01	3	GE SUPPLIED EQUIPMENT
				011	0	
				012	0	QUANTITY - 1
				02	0	TYPE - TRAVELING JIB CRANE
				03	0	CAPACITY - 3 TON
				04	0	BOOM SPAN - 12 FT
				05	0	SAFETY CLASS - NNS
				06	0	SEISMIC CAT. - NONE
				07	0	
				08	0	INCLUDES PENDANT CONTROL AND REMOTE
				09	0	CONTROL STATION.
226.8693	REMOTE MANIPULATOR	MFI	3562268693	01	0	QUANTITY - 2
				02	0	TYPE - CENTRAL RESEARCH MODEL
				03	0	F-HD OR EQUIVALENT
				04	0	
				05	0	INCLUDES REMOTE CONTROL PANEL
226.8694	PRECLEANING BOOTH	MFI	3562268694	01	3	DIMENSIONS - 8 FT X 10 FT X 10 FT HIGH
				02	3	SPECIAL REQUIREMENTS - PROVIDED WITH A
				03	3	6 FT WIDE X 10 FT HIGH DOOR, GLOVE
				04	3	PORT, WATER CURTAIN, AND A PNEUMATIC
				05	3	4 FT DIA. TURNABLE OF 2000 LB LOAD
				06	3	BEARING CAPACITY
226.8695	WORK BENCH	MFI	3562268695	01	3	DIMENSIONS - 10 FT X 3 FT X 2.5 FT HIGH
				02	3	LOAD - 300 LBS/SQ FT
226.8696	SPECIAL TOOLS AND EQUIP.	MFI	3562268696	01	3	GE SUPPLIED
				02	0	EQUIPMENT NO.
				021	0	DESCRIPTION
				03	3	EQUIPMENT WITHIN
				04	0	THE EQUIPMENT SERVICE
				05	0	FACILITY INCLUDING:
				06	0	PORTABLE DECONTAMINA-
				07	0	TION MODULE - 1
				08	0	VIDEO TRANSMITTER
				09	0	AND STAND - 2
				10	0	RECEIVER - 1
				11	0	MISC. TOOLS AND
				12	0	WRENCHES - 1 LOT
226.87	LAUNDRY EQUIPMENT	MGB3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.871	WASHER EXTRACTORS	GKB2	356226871	01	3	QUANTITY - 1
				02	3	CAPACITY - 200 LB
				03	3	
				04	3	QUANTITY - 1
				05	3	CAPACITY - 100 LB
226.872	WASHERS	GKB2	356226872	01	3	QUANTITY - 1
				02	3	CAPACITY - 18 LB
226.873	DRYERS	GKB2	356226873	01	3	QUANTITY - 3 X 100 PCT
				02	3	TYPE - STEAM OR ELECTRIC
				03	3	CAPACITY - 100 LB
226.874	LIFTING DEVICES	GKB2	356226874	01	3	QUANTITY - 1
				02	3	CAPACITY - 30 BUSHELS (200 LB)
				03	3	
				04	3	QUANTITY - 1
				05	3	CAPACITY - 16 BUSHELS (100 LB)
226.875	MISCELLANEOUS	GKB2				
226.8751	LABELS	GKB2	3562268751	01	3	QUANTITY - 2 EA
				02	3	SIZE - 30"W X 96"L X 36"H.
226.8752	SHELVES	GKB2	3562268752	01	3	QUANTITY - 15 EA
				02	3	CAPACITY - 21 BINS
				03	3	SIZE PER BIN - 12"H X 12"W X 18"D
				04	3	
				05	3	QUANTITY - 10 EA
				06	3	CAPACITY - 28 BINS
				07	3	SIZE PER BIN - 12"H X 9"W X 18"D
				08	3	
				09	3	QUANTITY - 12 EA
				10	3	CAPACITY - 56 BINS
				11	3	SIZE PER BIN - 6"H X 9"W X 18"D
226.8753	CABINETS	GKB2	3562268753	01	3	QUANTITY - 7 EA
				02	3	SIZE - 72"H X 36"W X 18"D
226.8754	HAMPERS	GKB2	3562268754	01	3	QUANTITY - 6 EA
				02	3	CAPACITY - 30 BUSHELS (200 LB)
				03	3	
				04	3	QUANTITY - 7 EA
				05	3	CAPACITY - 16 BUSHELS (100 LB)

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79						
ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
226.8755	CARTS	GKB2	3562268755	01	3	QUANTITY - 6 EA
				02	3	CAPACITY - 16 BUSHELS (100 LB)
226.8756	WASTE CARS	GKB2	3562268756	01	3	QUANTITY - 2 EA
				02	3	CAPACITY - 12 GAL
226.876	DOUBLE SINK	MGB2	356226876	01	3	QUANTITY - 2 EA
226.877	PIPING - MISC ITEMS	MAB3	356226877	01	3	ALLOWANCE
226.88	HOT CHANGE AREA	MFG				
226.881	SHOWERS, PERSONNEL	GKB3	356226881	01	3	QUANTITY - 2 EA
				02	3	TYPE - PERSONNEL DECONTAMINATN
226.882	FRISKERS, PERSONNEL	MZXX	356226882	01	3	QUANTITY - 5 EA
				02	3	TYPE - RADIATION MONITORS, GM
				03	3	TUBE TYPE
226.883	SINKS	MGB2	356226883	01	3	QUANTITY - 3 EA
				02	3	TYPE - PERSONNEL DECONTAMINATN
226.9	SAMPLING EQUIP					
226.92	HEAT TRANS EQUIP					
226.921	SAMPLE HEAT EXCHANGERS	MFL1				
226.93	TANKS + PRESS VESSELS					
226.931	SAMPLE VESSEL	MFL1				
226.932	SAMPLE SINK + HOOD	MFL1				
226.95	PIPING					
226.951	2IN + SMALLER					
226.9511	SS/NNS	MBC2				
226.96	SAMPLE SYSTEM VALVES	MCA				
226.961	GATE	MCA1				
226.962	CHECK	MCA2				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
226.963	GLOBE	MCA3				
226.964	SAUNDERS WEIR	MCA4				
226.965	RELIEF	MCA5				
226.97	PIPING-MISC ITEMS					
226.971	HANGERS & SUPPORTS	MAA				
226.972	INSULATION	MHA1				
226.973	SPECIALTIES	MAB3				
226.98	INSTRUMENTATION+CONTROL	MIC	35622698	01	3	PARTIALLY SUPPLIED BY GE
				011	3	QUANTITY = 4 - GE SUPPLIED
				02	0	SIZE + WEIGHT-
				03	3	LATER
				04	3	66IN X16IN X15IN =3000 LBS
				05	3	16IN X16IN X 3FT = 150 LBS
				06	3	2FT X 3FT X 8FT =1200 LBS
				061	0	
				07	3	GE EQUIP TAG
				08	0	DESCRIPTION
				09	3	
				10	3	ANALY INSTR FILTER STAND=1
				11	3	CO ANALYZER MODULE = 1
				12	0	LN2 SUPPLY MODULE = 1
				13	0	1-GAS BOTTLE
				14	0	2-INLINE SOL VALVES
				15	0	1-ELECT JUNC BOX
				16	3	1-PROBE
				17	0	PRIMARY COOLANT DEPRESS
				18	0	RACK (CONTN) - 1
			35622698A	19	0	
				20	0	STEAM SAMPLING PANEL INCLUDING CONTROL
				21	0	SWITCHES, INDICATOR LIGHTS, SAMPLING
				22	0	CONDITIONERS,TEMP CONTROLLERS, SOLENOID
				23	0	OPERATED VALVES, AND SAMPLE HOOD
				24	0	ALSO SEE SUB-ACCOUNT 227.123

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227. INSTRUMENTATION + CONTROL

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
227.1	REACTOR PLANT CONTROL SYS	MIAX	3562271	01	0	I&C DEVICES NOT INCLUDED IN ACCOUNT 227
				02	0	ARE ITEMIZED WITH THEIR RESPECTIVE
				03	0	PROCESS SYSTEMS NAMELY:
				04	0	
				05	3	221.12118 PCRV STRUCTURAL DAS
				06	0	221.1258 PCRV PRESS RELIEF SYS
				07	0	222.118 PRI.COOLANT -MN HE CIRC
				08	0	222.128 PRI.COOLANT PIPING SYS
				09	0	222.138 STEAM GENERATORS
				10	0	222.158 MN CIRULATOR SERVICE SYS
				11	0	223.18 CORE AUX COOL SYS
				12	0	223.38 CORE AUX COOL WATER SYS
				13	0	225.438 FUEL POOL COOLING
				14	0	225.448 FUEL HANDLING PURGE + EVAC
				16	0	226.318 HE STORAGE + TRANSFER SYS
				17	0	226.518 HE PURIFICATION
				18	0	226.528 LIQUID NITROGEN SYSTEM
				20	0	226.718 NUCLEAR SERVICE WATER SYS
			3562271A	01	0	226.728 REACTOR PLANT COOLING WATER
				011	0	226.748 NSS PROCESS COOLING WTR SYS
				02	0	226.868 DECONTAM + EQUIP HANDLING
				03	0	226.98 RX COOL SAMPLING SYS
				04	3	STEAM REFORMER
				05	3	RECUPEATOR
227.11	CENTRAL CONTROL ROOM PANEL					
227.111	MAIN OPERATOR CONSOLE	EEA1	356227111	01	3	QUANTITY = 1-CONSISTING OF 8 SECTIONS
				02	3	4 SECTIONS- GE SUPPLIED
				03	0	2 SECTIONS-PER 236-111
				04	0	SIZE: 5FT X 5FT X 5FT APPROX EACH
				05	0	WEIGHT: 1200 LBS EACH SECTION
				06	0	
				07	3	GE EQUIP TAG DESCRIPTION
				08	0	
				09	3	DAP STATUS CONTROL
				10	3	DAP ALARM + EDIT
				11	3	ROD CONTROL CONSOLE
				12	3	MN + RH STEAM CONSOLE
				13	3	FW-CQND-WATER SYS CONSOLE
				14	3	TURB-GEN + ELEC DISTR
				15	3	RECUPEATOR CONTROL
				16	3	CHEM. HEAT PIPE CONSOLE

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
227.112	COMPUTER CONSOLES	EEB1	356227112	01	3	QUANTITY = 2 - GE SUPPLIED
				02	0	SIZE + WEIGHT:
				03	3	2FT X 5FT X 5FT = 700LBS
				04	3	5FT X 5FT X 5FT = 2000LBS
				05	0	
				06	3	GE EQUIP TAG DESCRIPTION
				07	0	
				08	3	DAP COMMUNICATION CONSOLE
				09	3	DAP OUTPUT CONSOLE
227.113	NSS-CCR-PRIMARY CTL PANELS	EEB1	356227113	01	3	QUANTITY 16 - GE SUPPLIED
				02	0	SIZE: 2FT X 3FT X 8FT EACH
				03	0	WEIGHT: 1200 LBS EACH
				04	0	
				05	3	GE EQUIP TAG DESCRIPTION
				06	0	
				07	3	ROD PAIR CONTROL BOARD - 1
				08	3	CORE AUX COOL SYS CTL BD - 4
				09	3	MN CIRC SERV SYS CTL BD - 6
				10	3	MN CIRC SERV SYS
				11	0	COMMON CONTROL BOARD - 1
				12	3	OVERALL PLANT CONTROL
				13	3	COMMON CONTROL BOARD - 2
				14	3	PLANT PROTECTION SYSTEM
				15	0	DISPLAY BOARD - 2

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
227.114	NSS-CCR-SECONDARY CTL PNLS	EEA1	356227114	01	3	QUANTITY: 42 - GE SUPPLIED
				02	0	SIZE: 2FT X 3FT X 8FT EACH
				03	0	WEIGHT: 700 LBS NET EACH
				04	0	
				05	3	GE EQUIP TAG
				06	0	DESCRIPTION
				07	3	ROD PAIR CONTROL BOARDS = 4
				08	3	POWER ROD CONTROL BOARDS = 2
				09	3	MAIN CIRC SERVICE
				10	0	SIGNAL COND BD = 6
				11	3	MAIN CIRC SERVICE
				12	0	COMMON SIG COND BD = 1
				13	3	CORE AUX COOL SYS
				14	0	SIGNAL COND BD = 3
				15	3	PLANT PROTECTION SYS
				16	0	INPUT CONTROL BOARD = 9
				17	3	PLANT PROTECTION SYS
				18	0	OUTPUT SHUTDOWN CTL BD = 2
				19	3	PLANT PROTECTION SYS
				20	0	OUTPUT ACTUATOR CTL BD = 2
			356227114A	01	3	OVERALL PLANT CONTROL
				02	3	SIGNAL COND BD = 7
				03	3	PLANT CONTROL COMMON
				04	0	SIGNAL COND BD = 1
				05	3	SEQUENCE OF EVENTS
				06	0	MONIT FIELD SCANNER = 1
				07	3	SEQUENCE OF EVENTS
				08	0	MONIT FIELD SCANNER = 1
				09	3	SEQUENCE OF EVENTS
				10	0	MONIT FIELD SCANNER = 1
227.115	HVAC PANELS IN CCR	EEA1				
227.116	RX PLANT AUX SYS CTL PANEL	EEA	356227116	01	0	QUANTITY: 6 - SECTIONS
				02	0	SIZE: 2FT X 3FT X 8FT EACH
				03	0	WEIGHT: 1200 LBS EACH
				04	0	
				05	0	NUC SERVICE WATER SYS CTL PNL = 2
				06	0	RX PLANT COOLING WATER CTL PNL = 2
				07	0	CORE AUX COOL WATER SYS CTL PNL = 2
227.13	RX PLANT PNLS EXTERNAL-CCR	EEB3				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789012345678901234567890
227.131	PENETRATION AREA PANELS	EEA1	356227131	01	3	PLANT PROTECTION SYSTEM	
				02	0	CTL ROD POWER CENTER -	2
				03	0	SIZE: 96 X 24 X 84 IN	
				04	0	WEIGHT: 2800 LBS EACH	
				05	3	MAIN LOOP MOISTURE MONIT	
				06	0	TRANSMITTER BOARD -	3
				07	3	CONTROL ROD POWER CENTER -	2
				08	3	CONTROL ROD SLACK CABLE	
				09	0	INDICATION -	2
				10	3	ORIFICE CONTROL BOARDS -	2
				11	3	POWER ROD POSITION A/B	
				12	0	INDICATION BOARDS -	2
				13	3	POWER ROD DRIVE MOTOR	
				131	0	CONTROL BOARDS -	2
				14	3	RESERVE SHUTDOWN "A"	
				15	0	CONTROL BOARDS -	2
				16	3	RESERVE SHUTDOWN "B"	
				17	0	CONTROL BOARDS -	2
				18	3	MAIN LOOP INSTRUMENT BDS -	2
				19	3	REGENERATION LOCAL	
20	0	CONTROL BOARD -	1				
227.132	ANALYTICAL ROOM PANELS	EEA1	356227132	01	3	QUANTITY - 5 - GE SUPPLIED	
				02	0	SIZE + WEIGHT:	
				03	3	19FT X 39IN X 92IN - 18000LBS	
				04	3	2FT X 3FT X 8FT - 1200 LBS	
				05	3	2FT X 3FT X 8FT - 700 LBS	
				06	3	2FT X 3FT X 8FT - 700 LBS	
				07	3	2FT X 3FT X 8FT - 700 LBS	
				08	0		
				09	3	GE EQUIP TAG	
				10	0	DESCRIPTION	
				11	3	HELIUM PURIFICATION	
				12	0	CONTROL BOARD -	1
				13	3	ANALYTICAL INSTR BOARD -	1
				14	3	ANALYTICAL INSTR GAS	
				15	0	CHROMATIC BOARD -	1
				16	3	ANALYTICAL INSTR CTL BD -	1
				17	3	RAD GAS WASTE CONTROL BD -	1

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EQUIPMENT LIST - REPORT 2

09/12/79

MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR

COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	1234567890123456789012345678901234567890
227.133	FUEL HANDLING CTL RM PNLS	EEA1	356227133	01	3	QUANTITY = 18 - GE SUPPLIED	
				02	0	SIZE + WEIGHT:	
				03	3	48 X 44 X 43 INCHES-	1200LBS
				04	3	24 X 36 X 84 INCHES-	850LBS
				05	3	30 X 20 X 40 INCHES-	200LBS
				06	3	24 X 36 X 68 INCHES-	300LBS
				07	3	20 X 20 X 48 INCHES-	250LBS
				08	0		
				09	3	GE EQUIP TAG	DESCRIPTION
				10	0		
				11	3	FHM OPERATORS CONTROL	
				12	0	CONSOLE SECTIONS -	4
				13	3	FHM COMPUTER CABINETS -	7
				14	3	FHM COMPUTER TYPER -	1
				15	3	FHM TV MONITOR-VIDEO	
				16	0	CONTROLS + EQUIPMENT-	3
				17	3	FHM POWER DISTRIBUTION +	
				18	0	CONDITIONING EQUIP-	3
227.14	REMOTE SHUTDN AREA PANELS	EEA1	35622714	01	0	INSTRUMENTATION FOR REACTOR POWER SYS	
				011	3	3 - GE SUPPLIED	
				02	0	ARE INCLUDED IN THE FOLLOWING ACCOUNTS:	
				03	0		
				04	0	OPERATOR CONSOLE	227.111
				05	0	CONTROLS + DISPLAY	227.113
				06	0	SUPPLEMENTARY CONTROLS	227.114
				07	0	LOCAL CONTROLS	227.121
227.15	HVAC PANELS IN CCR	EEA1	35622715	01	0	QUANTITY:	13 - SECTIONS
				02	0	SIZE:	2FT X 3FT X 8FT EACH
				03	0	WEIGHT:	700 LBS EACH
				04	0		
				05	0	EQUIP TAG	DESCRIPTION
				06	0		
				07	3	CCR REMOTE AIR INTAKE	
				08	0	CONTROL PANEL "A"-	2
				09	3	CCR REMOTE AIR INTAKE	
				10	0	CONTROL PANEL "B"-	2
				11	3	CCR NORMAL HVAC CTL PNL	2
				12	3	COMPUTER ROOM HVAC CTL	1
				13	3	ELECTRONIC EQUIP RM CP	1
				14	3	CABLE SPREAD ROOM HVAC	2
				15	3	CACS CONTROLLER AREAS	3

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EQUIPMENT LIST - REPORT 2

09/12/79

MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION																																							
227.18	INSTRUMENT RACK		35622718	01	3	13 REQUIRED IN ADDITION TO THOSE SUPPLIED BY GE WITH REACTOR																																							
				02	3																																								
227.2	COMPUTER SYSTEMS (DAP)	ELXX	3562272	01	0	DATA ACQUISITION, PROCESSING + DISPLAY (DAP) SYSTEMS PROVIDES FOLLOWING: 1- ALARMING 2- PERIODIC LOGS 3- POINT TRENDING 4- SEQUENCE-OF-EVENTS RECORDS 5- POST-TRIP REVIEW 6- CRT INFORMATION DISPLAYS 7- CORE REACTIVITY STATUS 8- CORE TEMP + POWER DISTR 9- HEAT BALANCE CALCULATIONS 10- PLANT PERFORMANCE CALC 11- OPERATOR GUIDES																																							
				02	0																																								
				03	0																																								
				04	0																																								
				05	0																																								
				06	0																																								
				07	0																																								
				08	0																																								
				09	0																																								
				10	0																																								
				11	0																																								
				12	0																																								
				13	0																																								
227.21	DAP HARDWARE	MIA	35622721	01	3	QUANTITY - 25 GE SUPPLIED SIZE: 20 X 30 X 72 INCHES EACH WEIGHT: 200 LBS EA EXCEPT AS NOTED																																							
				02	0																																								
				03	0																																								
				04	0	<table border="1"> <thead> <tr> <th>GE EQUIP TAG</th> <th>DESCRIPTION</th> <th>QTY</th> </tr> </thead> <tbody> <tr><td>05</td><td>PROGRAMMERS CONTROL A/B</td><td>2</td></tr> <tr><td>06</td><td>MASS MEMORY A/B</td><td>2</td></tr> <tr><td>07</td><td>CENTRAL PROCESSOR A/B</td><td>2</td></tr> <tr><td>08</td><td>MAIN MEMORY A/B</td><td>2</td></tr> <tr><td>09</td><td>PERIPHERAL INTERFACES A/B</td><td>2</td></tr> <tr><td>10</td><td>CONSOLE INPUT/OUTPUT A/B</td><td>2</td></tr> <tr><td>11</td><td>DAP MUX INTERFACE A/B</td><td>2</td></tr> <tr><td>12</td><td>PLANT INPUT/OUTPUT</td><td>5</td></tr> <tr><td>13</td><td>DISPLAY GENERATOR</td><td>1</td></tr> <tr><td>14</td><td>PERIPHERAL SWITCHING UNIT (PSU)</td><td>1</td></tr> <tr><td>15</td><td>CIU/PSU POWER SUPPLY</td><td>1</td></tr> <tr><td>16</td><td>CONSOLE INTERFACE UNIT (CIU)</td><td>1</td></tr> </tbody> </table>	GE EQUIP TAG	DESCRIPTION	QTY	05	PROGRAMMERS CONTROL A/B	2	06	MASS MEMORY A/B	2	07	CENTRAL PROCESSOR A/B	2	08	MAIN MEMORY A/B	2	09	PERIPHERAL INTERFACES A/B	2	10	CONSOLE INPUT/OUTPUT A/B	2	11	DAP MUX INTERFACE A/B	2	12	PLANT INPUT/OUTPUT	5	13	DISPLAY GENERATOR	1	14	PERIPHERAL SWITCHING UNIT (PSU)	1	15	CIU/PSU POWER SUPPLY	1	16	CONSOLE INTERFACE UNIT (CIU)	1
GE EQUIP TAG	DESCRIPTION	QTY																																											
05	PROGRAMMERS CONTROL A/B	2																																											
06	MASS MEMORY A/B	2																																											
07	CENTRAL PROCESSOR A/B	2																																											
08	MAIN MEMORY A/B	2																																											
09	PERIPHERAL INTERFACES A/B	2																																											
10	CONSOLE INPUT/OUTPUT A/B	2																																											
11	DAP MUX INTERFACE A/B	2																																											
12	PLANT INPUT/OUTPUT	5																																											
13	DISPLAY GENERATOR	1																																											
14	PERIPHERAL SWITCHING UNIT (PSU)	1																																											
15	CIU/PSU POWER SUPPLY	1																																											
16	CONSOLE INTERFACE UNIT (CIU)	1																																											
				05	3																																								
				06	0																																								
				07	3																																								
				08	3																																								
				09	3																																								
				10	3																																								
				11	3																																								
				12	3																																								
				13	3																																								
				131	3																																								
				14	3																																								
				15	3																																								
				16	0																																								
				17	3																																								
				18	3																																								
			35622721A	19	0																																								
				01	0																																								
				02	0																																								
				03	0																																								

SEE SUB-ACCOUNT 227.112 +227.114 FOR ADDITIONAL COMPUTER EQUIPMENT

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EQUIPMENT LIST - REPORT 2

09/12/79

MODEL 356 = 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
227.22	MAN-MACHINE COMMUNICATIONS		35622722	01	0	THIS EQUIPMENT IS INCLUDED IN FOLLOWING SUB-ACCOUNTS :	
				02	0		
				03	0		
				04	0	OPERATOR CONSOLES	227.1111
				05	0	PROGRAMMER CONSOLES	227.211
				06	0	OUTPUT CONSOLE	227.112
227.23	NSSS COMPUTER SOFTWARE		35622723	01	3	QUANTITY - 1 LOT - GE SUPPLIED	
				03	0	SOFTWARE PACKAGE INCLUDES ALL	
				04	0	EXECUTIVE SUB-ROUTINES, ETC TO	
				05	0	ACCOMPLISH FUNCTIONS IN 227.2 ABOVE	
227.24	BOP COMPUTER HARDWARE		35622724	01	0	ALL BOP COMPUTER FUNCTIONS ARE INCLUDED	
				02	0	IN DUAL SYSTEM PROVIDED UNDER 227.21	
227.25	BOP COMPUTER SOFTWARE		35622725	01	0	INCLUDED UNDER ACCOUNT 227.23	
227.3	MONITORING SYSTEMS						
227.31	RADIOLOGICAL DATA MNG. SYS	MIA	35622731	01	0	INCLUDES PROBES, DETECTORS, SAMPLING	
				02	0	PANELS AND ALL NECESSARY ACCESSORY	
				03	0	EQUIPMENT FOR EFFLUENT, AREA, AIRBORNE	
				04	0	AND PROCESS MONITORING	
227.32	NEUTRON MONITORING SYS	MIA	35622732	01	3	GE SUPPLIED	
227.33	POST ACCIDENT MONITORING	MIA	35622733	01	0	CENTRAL MONITORING SYSTEM FOR SAFETY	
				02	0	SYSTEM STATUS AND FOR INDICATING	
				03	0	ANTICIPATED TRANSIENTS WITHOUT SCRAM	
227.34	REACTOR DIAGNOSTIC SYSTEM	MIA	35622734	01	0	INSTRUMENTATION TO RECORD AND ANALYZE	
				02	0	INTERNAL CORE MOTION. EQUIPMENT	
				03	0	INCLUDES DATA HANDLING SYSTEM FOR	
				04	0	ANALYSIS	
227.36	CONTAINMENT LEAKAGE MONITR	MIA	35622736	01	0	INCLUDES:	
				02	0	TRANSMITTERS	6
				03	0	TEMP ELEMENTS	8
				04	0	HUMIDITY MONITORS	2
				05	0	DATA ANALYSIS EQUIP.	1

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC PEF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
227.4	REACTOR POWER CONTROL SYS	MIA	3562274	01	0	INSTRUMENTATION FOR REACTOR POWER SYS ARE INCLUDED IN THE FOLLOWING ACCOUNTS: OPERATOR CONSOLE 227.111 CONTROLS + DISPLAY 227.113 SUPPLEMENTARY CONTROLS 227.114 LOCAL CONTROLS 227.131
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
227.5	RX PLANT TUBING & FITTING	MIA	3562275	01	0	LINEAR FEET OF TUBING - 40,000
228.	REACTOR PLANT MISC ITEMS					
228.1	MISC SUSPENSE ITEMS					
229.11	FINAL ALIGNMENT+CHECKING	MJA	35622811	01	3	ALLOWANCE FOR MISCELLANEOUS CHECKING AND ADJUSTING OF EQUIPMENT AFTER INITIAL ROTATION TESTS. (THIS ITEM SHALL BE USED AS A SUSPENSE ACCOUNT. THE COST OF WORK SHOULD BE CHARGED TO THE EQUIPMENT SERVICED WITH THIS ALLOWANCE BEING REDUCED BY THE SAME AMOUNT.)
				02	3	
				03	3	
				04	3	
				05	3	
				06	3	
				07	3	
				08	3	
228.12	FIELD PAINTING	GGF	35622812	01	3	ALLOWANCE FOR PAINTING OF ALL REACTOR PLANT EQUIPMENT AND PIPING
				02	3	
228.13	QUALIFICATION OF WELDERS	MJR	35622813	01	3	ALLOWANCE FOR QUALIFYING WELDERS AND WELDING PROCEDURES
				02	3	
229.	PCRV COOLING					
229.1	ROTATING MACHINERY					
229.11	PCRV COOL PMP+MTR (50PCT.)	MFA1				

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EQUIPMENT LIST - REPORT 2

09/12/79

MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
229.111	PCRV COOLING PUMP	MFA2	356229111	01	3	QUANTITY -	2 X 50 PCT
				02	3	TYPE -	CENTRIFUGAL
				03	3	ORIENTATION -	HORIZONTAL
				04	3	FLOW RATE -	427 GPM
				05	3	SPEED -	
				06	3	TDH -	254 FT
				07	3	BHP -	39 HP
				08	3	NPSH -	30 FT
				09	3	EFFICIENCY -	70 PCT
				10	3	DESIGN PRESS -	150 PSIG
				11	3	DESIGN TEMP -	250 F
				12	3	MATERIAL -	CARBON STEEL
				13	3	SAFETY CLASS -	3
				14	3	SEISMIC CAT. -	I
				15	3	DESIGN CODE -	ASME 3
229.112	PCRV COOLING MOTOR	EH	356229112	01	3	QUANTITY -	2
				02	3	TYPE -	AC INDUCTION
				03	3	HORSEPOWER -	50 HP
				04	3	SPEED -	
				05	3	VOLTAGE -	
229.12	PCRV CLG PMP+MTR (100PCT.)	MFA1					
229.121	PCRV COOLING PUMP	MFA2	356229121	01	3	QUANTITY -	2 X 100 PCT
				02	3	TYPE -	CENTRIFUGAL
				03	3	ORIENTATION -	HORIZONTAL
				04	3	FLOW RATE -	854 GPM
				05	3	SPEED -	
				06	3	TDH -	254 FT
				07	3	BHP -	78 HP
				08	3	NPSH -	30 FT
				09	3	EFFICIENCY -	70 PCT
				10	3	DESIGN PRESS -	150 PSIG
				11	3	DESIGN TEMP -	250 F
				12	3	MATERIAL -	CARBON STEEL
				13	3	SAFETY CLASS -	3
				14	3	SEISMIC CAT. -	I
				15	3	DESIGN CODE -	ASME 3
229.122	PCRV COOLING PUMP MOTOR	EH	356229122	01	3	QUANTITY -	2
				02	3	TYPE -	AC INDUCTION
				03	3	HORSEPOWER -	100 HP
				04	3	SPEED -	
				05	3	VOLTAGE -	

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
229.2	HEAT TRANSFER EQUIPMENT					
229.21	FUEL POOL COOLING EXCHGR	MFB2	35622921	01	3	QUANTITY - 2 X 100 PCT
				02	3	TYPE - SHELL AND U-TUBE
				03	3	ORIENTATION -
				04	3	HEAT LOAD - 13.65 E+06 BTU/HR
				05	3	SURFACE AREA - 2674 SQ. FT.
				06	3	SHELL CONDITION*
				07	3	DES. PRESS/TEMP - 150 PSIG/200 F
				08	3	TEMP IN/OUT - 95 F / 105 F
				09	3	FLOW RATE - 2730 GPM
				10	3	MATERIAL - CARBON STEEL
				11	3	SAFETY CLASS - 3
				12	3	DESIGN CODE - ASME 3
				13	3	TUBE CONDITION*
				14	3	QUANTITY - 117
				15	3	SIZE - 3/4 IN.
				16	3	DES. PRESS/TEMP - 150 PSIG/150F
				17	3	TEMP IN/OUT - 125 F/109 F
				18	3	FLOW RATE - 853 GPM
				19	3	MATERIAL - S.S.
				20	3	SAFETY CLASS - 3
				21	3	DESIGN CODE - ASME 3
				22	3	SEISMIC CAT. - 1
229.3	PURIFICATION + FILTRATION					
229.31	CHEMICAL CONTROL PACKAGE	MF15	35622931	01	3	INCLUDES: TANKS, FILTERS, DEMINERALIZERS,
				02	3	VALVES, INTERNAL PIPING AND INSTRUMENTATION.
				03	3	
				04	3	
				05	3	QUANTITY - 1 X 100 PCT
				06	3	FLOW RATE - 50 GPM
				07	3	MATERIAL - CS
				08	3	SAFETY CLASS - NNS
				09	3	SEISMIC CAT.
229.4	PUMP SUCTION STRAINER					

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09/12/79

MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
229.41	PUMP SUCTION STRAINER	MFH1	35622941	01	3	QUANTITY - 2 X 100 PCT
				02	3	SIZE - 6 INCH
				03	3	FLOW 427 GPM
				04	3	DESIGN PRESS - 150 PSIG
				05	3	DESIGN TEMP - 200 F
				06	3	MATERIAL - CARBON STEEL
				07	3	SAFETY CLASS - 3
229.42	PUMP SUCTION STRAINER	MFH1	35622942	01	3	QUANTITY - 2 X 100 PCT
				02	3	SIZE 6 INCH
				03	3	FLOW RATE 854 GPM
				04	3	DESIGN PRESS. - 150 PSIG
				05	3	DESIGN TEMP. - 200 F
				06	3	MATERIAL CARBON STEEL
				07	3	SAFETY CLASS - 3
229.5	PIPING					
229.51	2 IN. + SMALLER					
229.511	CS/SC 3	MBA1				
229.512	CS/NNS	MBC1				
229.52	2.5 IN. + LARGER					
229.521	CS/SC 3	MBB1				
229.6	VALVES	MCA				
229.61	GATE	MCA1				
229.62	CHECK	MCA2				
229.63	GLOBE	MCA3				
229.65	RELIEF	MCA5				
229.7	PIPING-MISC. ITEMS					
229.71	HANGERS + SUPPORTS	MAA				
229.8	INSTRUMENTATION + CONTROL					
23	TURBINE PLANT EQUIPMENT					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
231.	TURBINE GENERATOR		356231	01	3	SINGLE CC 4F-43 WITH 3.5 IN. DESIGN BACK PRESSURE.
				02	0	
231.1	TURBINE GENERATOR +ACCSRY	MFF1				
231.11	TURBINE FACTORY COST	MFF3	35623111	01	0	QUANTITY - 1
				02	0	TYPE - CROSS COMPOUND, FOUR FLOW, 43 IN. LSB
				03	3	UNIT HEATING - 654.25 MWE
				04	3	AT 3.5 IN. HG ABS AND 32 PCT MAKEUP
				05	3	
				051	3	
				06	0	SHAFT RATING:
				07	3	HP TURBINE - 375.23 MWE
				08	3	LP TURBINE - 279.02 MWE
				09	0	SPEED:
				10	3	HP TURBINE - 3600 RPM
				11	0	LP TURBINE - 1800 RPM
				12	0	TURBINE DESIGN:
				13	3	MAIN STM FLOW - 6,840,000 LB/HR
				14	3	MAIN STM PRESS - 1600 PSIG
				15	3	MAIN STM TEMP - 999.5 F
				18	0	GENERATOR DESIGN:
				19	0	TYPE - HYDROGEN COOLED ROTOR WATER COOLED STATOR
				20	0	
			35623111A	21	0	SHAFT RATING:
				22	3	HP GENERATOR - MVA
				23	3	LP GENERATOR - MVA
				24	0	HYDROGEN PRESS:
				25	3	HP GENERATOR - 60 PSIG
				26	0	LP GENERATOR - 75 PSIG
				27	0	VOLTAGE - 26,000 V, 3 PHASE, 60 HZ
				28	0	
				29	0	POWER FACTOR - 0.90
231.12	OTHER TURBINE COSTS	MFF4				
231.13	EXCITER	MFF6	35623113	01	0	QUANTITY - 2 (ONE PER GENERATOR)
				02	0	TYPE - AC SHAFT DRIVEN

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EQUIPMENT LIST - REPORT 2

09/12/79

MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
231.18	T/G INSTR + CONTROL	MID	35623118	01	0	VENDOR FURNISHED I&C EQUIP ARE PART OF
				02	0	MAJOR TURBINE SUB-SYSTEMS NAMELY:
				03	0	TURBINE SUPERVISORY INSTRUMENTS
				04	0	LUBE OIL SYSTEM
				05	0	CONTROL OIL SYSTEM
				06	0	EHC - FLUID SYSTEM
				07	0	EHC - ELECTRONIC SYSTEM
				08	0	HYDROGEN + SEAL OIL SYSTEM
				09	0	STATOR COOLANT SYSTEM
				10	0	TURBINE VALVE TEST SYSTEM
				11	0	GLAND STEAM SEALING SYSTEM
				12	0	DRAIN CONTROL SYSTEM
				13	0	TURBINE TRIP SYSTEMS
231.2	FOUNDATIONS					
231.21	T-G PEDESTAL					
231.211	EXCAVATION WORK					
231.2111	EARTH EXCAVATION	GCA1				
231.2112	ROCK EXCAVATION	GCA3				
231.2113	CONCRETE FILL	GEC1				
231.2114	FILL AND BACKFILL	GCC1				
231.2115	DEWATERING	GCBX				
231.213	SUBSTRUCTURE CONCRETE					
231.2131	FORMWORK	GEA21				
231.2132	REINFORC STEEL	GEH11				
231.2133	CONCRETE	GEC21				
231.2134	EMBEDDED STEEL	GED2				
231.2135	CONSTRUCTION JOINTS	GEG				
231.214	SUPERSTRUCTURE					
231.2141	CONCRETE WORK					

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09/12/79

MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
231.21411	FORMWORK	GEA23				
231.21412	REINFORCING STEEL	GEB14				
231.21413	CONCRETE	GEC22				
231.21414	EMBEDDED STEEL	GED2				
231.21415	FLOOR FINISH	GEE2				
231.21417	RUBBING CONCRETE SURFACE	GEE1				
231.21418	CONSTRUCTION JOINTS	GEG				
231.4	LUBRICATING OIL SYS					
231.45	PIPING					
231.451	2IN + SMALLER					
231.4511	CS/NNS	MBC1				
231.452	2.5IN + LARGER					
231.4521	CS/NNS	MBD1				
231.46	VALVES	MCA				
231.47	PIPING-MISC ITEMS					
231.471	PIPE HANGERS + SUPPORTS	MAA				
231.472	INSULATION	MHA2				
231.473	SPECIALTIES	MAB3				
231.48	INSTRUMENTATION + CONTROL	MIDX	35623148	01	0	TURBINE LUBE OIL SYSTEM I&C DEVICES ARE
				02	0	PRE-PIPED. + WIRED TO JUNCTION BOXES ON
				03	0	OIL RESERVOIR + NEAR BEARINGS BY TURB
				04	0	ERECTOR. SEE ACCOUNT 256.
231.49	SKIDS/FOUNDATIONS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
231.491	LUBE OIL CONDITIONING EQUI	MF11	356231491	01	0	QUANTITY - 1
				02	0	TYPE - CENTRIFUGE
				03	0	CAPACITY:
				04	0	MAIN TURBINE - 2,800 GPH
				05	0	BFP TURBINE - 450 GPH
				06	0	TRANSFER PUMPS AND MOTORS:
				07	0	QUANTITY - 2
				08	0	FLOW RATE - 100 GPM
				09	0	IDH - 50 FT
				10	0	STORAGE TANK:
				11	0	QUANTITY - 2
				12	0	CAPACITY - 18,000 GAL
				13	0	DESIGN PRESS - 15 PSIG
				14	0	DESIGN TEMP - 100 F
				15	0	MATERIAL - LINED CARBON STEEL
231.492	FIRE PROTECTION EQUIPMENT	MEB	356231492	01	0	ALLOWANCE FOR:
				02	0	1. STANDPIPE SYSTEM WITH TWENTY-FOUR
				03	0	1.5 INCH HOSE STATIONS.
				04	0	2. EIGHTY HAND EXTINGUISHERS.
				05	0	3. LUBE OIL ROOM SPRINKLER SYSTEM.
				06	0	4. DELUGE SYSTEMS FOR LUBE OIL
				07	0	STORAGE TANKS, LUBE OIL CONDI-
				08	0	TIONING EQUIPMENT, HYDROGEN SEAL
				09	0	OIL UNIT, HYDRAULIC OIL PUMPING
				10	0	UNIT AND TURBINE GENERATOR LUBE
				11	0	OIL PIPING.
231.5	GAS SYSTEMS					
231.51	HYDROGEN STORAGE	MF14				
231.513	TANKS + PRESSURE VESSELS					
231.5131	HYDROGEN STORAGE TANK	MFCX	3562315131	01	0	REFILLABLE, PERMANENT BOTTLED CONTAINERS
				02	0	WITH CAPACITY FOR STORING 100,000 SCF
231.52	CARBON DIOXIDE STORAGE	MF14				
231.523	TANKS + PRESSURE VESSELS					
231.5231	CARBON DIOXIDE STG TANK	MFCX	3562315231	01	0	REFILLABLE, PERMANENT, LIQUID,
				02	0	REFRIGERATION TYPE STORAGE TANK WITH
				03	0	CAPACITY FOR STORING 40,000 SCF

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.	CONDENSING SYS.		356233	01	0	MAIN AND BFP TURBINE EXHAUST STEAM
				02	3	CONDENSED BY THREE 50 PCT CAPACITY
				06	0	MECHANICAL VACUUM PUMPS REMOVE
				07	0	CONDENSER GAS.
				08	0	
				09	0	THREE 50 PCT CAPACITY CONDENSATE PUMPS,
				10	0	EACH SIZED FOR 60 PCT GUARANTEED
				11	0	CONDENSER FLOW WITH 5 PCT CALCULATED
				12	0	SYSTEM HEAD MARGIN TRANSFER CONDENSATE
				13	0	FROM MAIN CONDENSER HOTWELL. ONE 100
				14	0	PCT CONTINUOUS FULL FLOW, SINGLE TRAIN,
				15	0	MIXED BED, REGENERATIVE DEMINERALIZER
				16	0	CONDENSATE POLISHING SYSTEM. TWO 50 PCT
				17	0	TURBINE BYPASS SYSTEMS CAPABLE TOGETHER
				18	0	OF HANDLING 75 PCT GUARANTEED MAIN
				19	0	STEAM FLOW, (25 PCT TO ATMOSPHERE),
				20	0	WITH TWO 50 PCT FLASH TANKS AND BYPASS
				21	0	STEAM DESUPERHEATERS.
233.1	CONDENSER EQUIP					
233.12	HEAT TRANSFER EQUIPMENT					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.121	CONDENSERS	MFB3	356233121	01	0	QUANTITY - 1
				02	3	TYPE -
				03	0	ORIENTATION - LONGITUDINAL
				04	3	SURFACE AREA -
				05	0	DES. EXHAUST -
				06	3	INLET PRESS DES. 3.5 INS. HG. ABS.
				07	0	MAX. 15 INS. HG. ABS.
				08	3	HEAT LOAD - 9.4 E+08 BTU/HR
				09	3	TEMP RISE - 18 F
				10	0	SHELL CONDITION:
				11	3	FLOW RATE - 1.01 E+06 LB/HR STM
				12	3	FLOW RATE - 2.16 E+06 LB/HR COLD
				121	3	MAKE UP
				122	3	FLOW RATE - 0.605 E+06 LB/HR
				123	3	HTR DRAINS
				13	0	MATERIAL - A-285 GR.C
				14	0	TUBE CONDITION:
				15	3	QUANTITY -
				16	0	SIZE - 1 IN DIA., 20 BWG
				17	3	LENGTH -
				18	0	DES. PRESS/TEMP - 100 PSIG / 150 F
				19	3	FLOW RATE -
			356233121A	20	3	VELOCITY -
				21	3	MATERIAL - 90-10 CU IN
				22	0	SAFETY CLASS - NNS
				23	0	SEISMIC CAT. - NONE
				24	0	DESIGN CODE - ASME-MODIFIED
233.122	TUBE CLEANING					
		MFI9				
233.2	CONDENSATE SYS					
233.21	ROTATING MACHINERY					
233.211	CONDENSATE PUMP + MOTOR					
		MFA1				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
233.2111	CONDENSATE PUMP	MFA2	3562332111	01	0	QUANTITY - 3 X 50 PCT
				02	0	TYPE - CENTRIFUGAL - 6 STAGE
				03	3	ORIENTATION - VERTICAL CAN TYPE
				04	3	FLOW RATE - 7150 GPM
				05	0	SPEED - 1,187 RPM
				06	3	TDH - 500 FT
				07	3	BHP -
				08	0	NPSH - 26 FT
				09	0	EFFICIENCY - 83 PCT
				10	3	DESIGN PRESS - 350 PSIG
				11	0	DESIGN TEMP - 140 F
				12	3	MATERIAL - CARBON STEEL CAN, CAST
				121	0	IRON CASING&IMPELLER,
				122	0	CHROME STEEL SHAFT
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
233.2112	CONDENSATE PUMP MOTOR	EHXX	3562332112	01	0	QUANTITY - 3
				02	0	TYPE - S.C.I.M.
				03	3	HORSEPOWER - 1250 HP
				04	0	SPEED - 1,200 RPM
				05	0	VOLTAGE - 4,000 V, 3 PHASE, 60 HZ
233.213	TRANSFER PUMP + MOTOR	MFA1				
233.2131	TRANSFER PUMP	MFA2	3562332131	01	3	QUANTITY - 3 X 50 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 750 GPM
				05	0	SPEED - 3,500 RPM
				06	0	TDH - 40 FT
				07	0	BHP - 10 HP
				08	0	NPSH - 15 FT
				09	0	EFFICIENCY - 80 PCT
				10	0	DESIGN PRESS - 50 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CASING - CHROME STEEL,
				121	0	IMPELLER + SHAFT
				122	0	CHROME STEEL
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - ASME VIII

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.2132	TRANSFER PUMP MOTOR	EHXX	3562332132	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 15 HP
				04	0	SPEED - 3,600 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
233.23	TANKS + PRESSURE VESSELS					
233.231	CONDENSATE STORAGE TANKS	MFC3	356233231	01	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 50FT OD X 40FT STRAIGHT
				04	0	VOLUME - 600,000 GALS
				05	0	DESIGN PRESS - ATMOSPHERIC
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - CARBON STEEL
				071	0	(EPOXY LINED)
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - AWWA
233.25	PIPING					
233.251	2 IN & SMALLER					
233.2511	CS/NNS	MBC1				
233.252	2.5 IN & LARGER					
233.2521	CS/NNS	MBD1				
233.26	VALVES	MCA				
233.269	SPECIAL VALVES	MCA9				
233.27	PIPING-MISC. ITEMS					
233.271	HANGERS & SUPPORTS	MAA				
233.272	INSULATION	MHA2				
233.273	SPECIALTIES	MAB3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.28	I+C	MID	35623328	01	3	CONDENSATE SYSTEM
				02	0	
				10	3	FLOW ELEMENTS
				11	3	TEMP ELEMENTS
				12	3	LOCAL IND
				13	3	TRANSMITTERS
				14	3	CONTROLLERS
				15	3	PROCESS SWITCHES
233.29	FOUNDATIONS					
233.291	CONDENSATE STG TNK FOUNDTN					
233.2911	FORMWORK	GEA21				
233.2912	REINFORCING STEEL	GEB11				
233.2913	CONCRETE	GEC21				
233.2914	EMBEDDED IRON	GED2				
233.2915	STRUC STEEL	GFA1				
233.2916	MISC STEEL	GFXX				
233.2917	EXCAVATION WORK	GCA1				
233.29171	EARTH EXCAVATION	GCA12				
233.29172	BACKFILL	GCC12				
233.29173	COMPACTED SAND BED	GCC5				
233.3	GAS REMOVAL SYS					
233.31	CONDENSER GAS REMOVAL SYS					
233.311	ROTATING MACHINERY					
233.3111	MECH VACUUM PUMP + MOTOR	MFA1				

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MODEL 356 = 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
233.31111	MECH VACUUM PUMP	MFA2	35623331111	01	0	QUANTITY -	3 X 50 PCT
				02	0	TYPE -	ROTARY (COMBINED
				021	0		HOGGING & HOLDING)
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE:	
				05	0	HOGGING -	750 SCFM
				06	0	HOLDING -	12.50 SCFM
				07	0	DESIGN PRESS:	
				08	0	HOGGING -	8 INS ABS
				09	0	HOLDING -	1 INS ABS
				10	0	SPEED -	585 RPM
				11	0	MATERIAL -	CI BODY, SS INTERNALS
				12	0	SAFETY CLASS -	NNS
				13	0	SEISMIC CAT. -	NONE
				14	0	DESIGN CODE -	HE1 STD.
233.31112	MECH VACUUM PUMP MOTOR	EHXX	35623331112	01	0	QUANTITY -	3 X 50 PCT
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	125 HP
				04	0	SPEED -	585 RPM
				05	0	VOLTAGE -	460V, 3PHASE, 60HZ.
233.312	HEAT TRANS EQUIP						
233.3121	PACKING EXHAUSTER	MZXX	3562333121	01	0	SUPPLIED BY TURBINE VENDOR	
233.315	PIPING						
233.3151	2IN + SMALLER						
233.31511	CS/NNS	MBC1					
233.3152	2.5IN + LARGER						
233.31521	CS/NNS	MBD1					
233.316	VALVES	MCA					
233.317	PIPING-MISC ITEMS						
233.3171	HANGERS + SUPPORTS	MAA					
233.3172	INSULATION	MHA2					
233.3173	SPECIALTIES	MAB3					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.318	I+C	MID	356233318	01	3	COND GAS REMOVAL SYSTEM
				02	0	
				06	3	TRANS
				07	3	PROCESS SW
				13	0	
				14	0	ASSUMED MECHANICAL VACUUM PUMP PURCHASE
				15	0	PACKAGE INCLUDES NECESSARY INSTRUMENTS.
233.4	TURB BYPASS SYS					
233.41	MAIN TURB BYPASS SYS EQUIP					
233.413	TANKS + PRES VES					
233.4131	FLASH TANKS	MFC1	3562334131	01	0	QUANTITY - 2
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 13 FT-6 IN ODX9 FT STRT
				04	0	VOLUME -
				05	0	DESIGN PRESS - 1,150 PSI
				06	0	DESIGN TEMP - 750 F
				07	0	MATERIAL - CARBON STEEL
				071	0	WALL THICKNESS - 6.5 IN
				072	0	INTERNALS - MOISTURE SEPERATORS + DRYER
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - SECTION VIII
				11	0	WEIGHT - 220,000 LBS
233.415	PIPING					
233.4151	2 IN + SMALLER	MBCX				
233.41511	SS/NNS	MBC2				
233.41512	CS/NNS	MBC1				
233.4152	2.5 IN + LARGER					
233.41521	SS/NNS	MBD2				
233.41522	CS/NNS	MBD1				
233.416	VALVES	MCA				
233.417	PIPING-MISC ITEMS					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
233.4171	HANGERS + SUPPORTS	MAA					
233.4172	INSULATION	MHA2					
233.4173	SPECIALTIES	MAB3					
233.41731	DESUPERHEATERS	MAB3					
233.418	INSTRUMENTATION+CONTROL	MID					
233.5	CONDENSATE POLISHING SYS	MFH	3562335	01	0	PACKAGE UNIT	
233.51	ROTATING MACHINERY						
233.511	ACID REGEN PUMP + MOTOR	MFA1					
233.5111	ACID REGEN PUMP	MFA2	3562335111	01	0	QUANTITY -	2 X 100 PCT
				02	0	TYPE -	POSITIVE DISPLACEMENT
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	0 - 300 GPH
				05	0	SPEED -	1800 RPM
				06	0	TDH -	100 FT
				08	0	NPSH -	10 FT
				10	0	DESIGN PRESS -	100 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	ALLOY 20
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
233.5112	ACID REGEN PUMP MOTOR	EHXX	3562335,112	01	0	QUANTITY -	2
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	3/4 HP
				04	0	SPEED -	1800 RPM
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
233.512	CAUSTIC REGEN PUMP + MOTOR	MFA1					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.5121	CAUSTIC REGEN PUMP	MFA2	3562335121	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - POSITIVE DISPLACEMENT
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 0 - 150 GPM
				05	0	SPEED - 1800 RPM
				06	0	TDH - 100 FT
				08	0	NPSH - 10 FT
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 150 F
				12	0	MATERIAL - S.S.
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
233.5122	CAUSTIC REGEN PUMP MOTOR	EHXX	3562335122	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 3/4 HP
				04	0	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
233.513	AMMONIA REGEN PUMP + MOTOR	MFA1				
233.5131	AMMONIA REGEN PUMP	MFA2	3562335131	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 5 GPM
				05	0	SPEED - 1,800 RPM
				06	0	TDH - 100 FT
				08	0	NPSH - 10 FT
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 150 F
				12	0	MATERIAL - S.S.
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
233.5132	AMMONIA REGEN PUMP MOTOR	EHXX	3562335132	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 1 HP
				04	0	SPEED - 1,800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
233.514	SLUICE WTR REGEN PUMP+MTR	MFA1				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
233.5141	SLUICE WATER REGEN PUMP	MFA2	3562335141	01	0	QUANTITY -	2 X 100 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	300 GPM
				05	0	SPEED -	1,800 RPM
				06	0	TDH -	100 FT
				07	0	BHP -	10 HP
				08	0	NPSH -	10 FT
				09	0	EFFICIENCY -	75 PCT
				10	0	DESIGN PRESS -	100 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	S.S.
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
233.5142	SLUICE WTR REGEN PUMP MTR	EHXX	3562335142	01	0	QUANTITY -	2
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	15 HP
				04	0	SPEED -	1,800 RPM
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
233.515	RECYCLE PUMP + MOTOR	MFA1					
233.5151	RECYCLE PUMP	MFA2	3562335151	01	0	QUANTITY -	2 X 100 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	750 GPM
				05	0	SPEED -	1,800 RPM
				06	0	TDH -	50 FT
				07	0	BHP -	11 HP
				08	0	NPSH -	10 FT
				09	0	EFFICIENCY -	80 PCT
				10	0	DESIGN PRESS -	500 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	S.S.
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
233.5152	RECYCLE PUMP MOTOR	EHXX	3562335152	01	0	QUANTITY -	2
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	15 HP
				04	0	SPEED -	1,800 RPM
				05	0	VOLTAGE -	460 V, 3 PHASE 60 HZ

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.516	AIR BLOWER + MOTOR	MFQ1				
233.5161	AIR BLOWER		3562335161	01	0	QUANTITY - 2
				02	0	TYPE - POSITIVE DISPLACEMENT
				03	0	FLOW RATE -
				04	0	STATIC PRESS -
				05	0	SPEED -
				06	0	BHP -
				07	0	EFFICIENCY -
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE -
233.5162	AIR BLOWER MOTOR	EHXX	3562335162	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 25 HP
				04	0	SPEED -
				05	0	VOLTAGE -
233.53	TANKS + PRES VESSELS					
233.531	RESIN SEP.+CATION REGEN.TK	MFC1	356233531	01	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL W/DISHED HEADS
				021	0	AND STRUCT. STEEL LEGS
				03	0	DIMENSIONS - 5 FT DIAM. X 14 FT STR.
				031	0	SIDE
				04	0	VOLUME - 280 CU FT
				05	0	DESIGN PRESS - 75 PSIG
				06	0	DESIGN TEMP - 130 F
				07	0	MATERIAL - CS, RUBBER LINED, WITH
				071	0	SS INTERNALS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - ASME SECT. VIII

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
233.532	ANION REGEN. TANK	MFC1	356233532	01	0	QUANTITY -	1
				02	0	ORIENTATION -	VERTICAL WITH DISHED HEADS AND STRUCTURAL STEEL LEGS.
				021	0		
				022	0		
				03	0	DIMENSIONS -	4 FT-6 IN DIAM. X 14 FT
				031	0		STRAIGHT SIDE
				04	0	VOLUME -	225 CU FT
				05	0	DESIGN PRESS -	75 PSIG
				06	0	DESIGN TEMP -	130 F
				07	0	MATERIAL -	CS RUBBER LINED, W/SS INTERNALS
				071	0		
08	0	SAFETY CLASS -	NNS				
09	0	SEISMIC CAT. -	NONE				
10	0	DESIGN CODE -	ASME SECTION VIII				
233.533	RESIN STORAGE TANK (REGEN)	MFC1	356233533	01	0	QUANTITY -	1
				02	0	ORIENTATION -	VERTICAL, WITH DISHED HEADS AND STRUCTURAL STEEL LEGS.
				021	0		
				022	0		
				03	0	DIMENSIONS -	5 FT DIAMETER X 14 FT
				031	0		STRAIGHT SIDE
				04	0	VOLUME -	280 CU FT
				05	0	DESIGN PRESS -	75 PSIG
				06	0	DESIGN TEMP -	130 F
				07	0	MATERIAL -	CS RUBBER LINED WITH SS INTERNALS.
				071	0		
08	0	SAFETY CLASS -	NNS				
09	0	SEISMIC CAT. -	NONE				
10	0	DESIGN CODE -	ASME VIII				
233.534	HOT WATER HEATING TANK	MFC1	356233534	01	0	QUANTITY -	1
				02	0	ORIENTATION -	VERTICAL
				03	0	DIMENSIONS -	7 FT DIAMETER X 8 FT
				031	0		STRAIGHT SIDE
				04	0	VOLUME -	310 CU FT
				05	0	DESIGN PRESS -	75 PSIG
				06	0	DESIGN TEMP -	130 F
				07	0	MATERIAL -	CS - EPOXY LINED
				08	0	SAFETY CLASS -	NNS
				09	0	SEISMIC CAT. -	NONE
				10	0	DESIGN CODE -	ASME VIII

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.535	BULK ACID STORAGE TANK	MFC	356233535	01	0	QUANTITY - 1
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS - 8 FT DIA X 11 FT
				031	0	STRAIGHT SIDE
				04	0	VOLUME - 4,000 GAL
				05	0	DESIGN PRESS - 10 PSIG
				06	0	DESIGN TEMP - 130 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - AWWA
233.536	BULK CAUSTIC STORAGE TANK	MFC	356233536	01	0	QUANTITY - 1
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS - 8 FT DIA X 11 FT
				031	0	STRAIGHT SIDE
				04	0	VOLUME - 4,000 GAL
				05	0	DESIGN PRESS - 10 PSIG
				06	0	DESIGN TEMP - 130 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - AWWA
233.537	BULK AMMONIA STORAGE TANK	MFC	356233537	01	0	QUANTITY - 1
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS - 8 FT DIA X 11 FT
				031	0	STRAIGHT SIDE
				04	0	VOLUME - 4,000 GAL
				05	0	DESIGN PRESS - 10 PSIG
				06	0	DESIGN TEMP - 130 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - AWWA
233.54	PURIF. EQUIP.					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
233.541	MIXED BED DEMIN.	MFH2	356233541	01	3	QUANTITY = 5
				02	0	TYPE -
				03	0	ORIENTATION - VERTICAL WITH DISHED
				031	0	HEADS AND STRUCTURAL
				032	0	STEEL LEGS.
				04	0	SIZE - 8 FT DIAM X 5 FT
				041	0	STRAIGHT SIDE
				05	3	FLOW RATE - 2250 GPM EA.
				051	0	(50 GPM/SF MAX)
				06	0	RESIN TYPE - CATION: 90 CU FT
				061	0	ANION: 60 CU FT
				07	0	RESIN VOLUME - 150 CU FT
				08	0	FREEBOARD - 2 FT
				09	0	BED DEPTH - 3 FT
				10	0	DESIGN PRESS - 500 PSIG
				11	0	DESIGN TEMP - 130 F
				12	0	MATERIAL - CS, 3/16 IN. RUBBER LINED
				121	0	SS INTERNALS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE - ASME SECT. VIII
233.55	PIPING					
233.56	VALVES	MCA				
233.57	PIPING - MISC. ITEMS					
233.571	HANGERS + SUPPORTS	MAA				
233.572	INSULATION	MHA				
233.573	SPECIALTIES	MAB				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

233.58	COND POLISH SYS I+C	MIDX	35623358	01	0	QUANTITY: 1-Lot furnished with purch
				02	0	PACKAGE INCLUDES AS MIN.
				03	0	
				04	0	ITEM DESCRIPTION
				05	0	
				06	0	PANEL 20 X 8 X 7.5 FT FREE STAND.
				07	0	FOR CONTROL-INDICATION
				08	0	ALARMING -DAP OUTPUTS
				09	0	
				10	0	RACKS SKID MOUNTED -TUBING + WIRE
				11	0	CONNECT TO PANEL
				12	0	
				13	0	VALVES SYSTEM BYPASS CTL VLV.
				14	0	

233.59	FOUNDATIONS/SKIDS					
233.591	FOUNDATIONS FOR CHEM TKS					
233.5911	EXCAVATION WORK					
233.59111	EARTH EXCAVATION		GCA12			
233.59112	BACKFILL		GCC12			
233.5912	CONCRETE WORK					
233.59121	FORMWORK		GEA21			
233.59122	REINFORCING STEEL		GEB11			
233.59123	CONCRETE		GEC21			
233.59128	RUBBING CONCRETE SURFACES		GEE1			
233.5913	LIMESTONE FILL		GCC5			

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
234.	FEEDWATER HEATER SYSTEM		356234	01	3	FOUR STAGES OF FEEDWATER HEATING; NO.1
				02	3	IS 100 PCT CAPACITY LOCATED IN THE
				03	3	CONDENSER NECK, NO.2 & 4 ARE PARALLEL
				04	3	50 PCT SHELLS, NO.3 DEAERATING HEATER
				05	3	IS FULL FLOW CAPACITY. TWO MAIN FEED-
				06	3	WATER & BOOSTER PUMPS. BOOSTER PUMPS
				07	3	ARE MOTOR DRIVEN. MAIN FEED PUMPS ARE
				08	3	TURBINE DRIVEN. EACH IS SIZED FOR 55
				09	3	PCT OF THE FEEDWATER FLOW.
				10	0	AND BOOSTER PUMPS, EACH SET DRIVEN BY A
				11	0	COMMON TURBINE AND SIZED FOR 55 PCT
				12	0	GUARANTEED FEED WATER FLOW PLUS 50 PCT
				13	0	CRH DESUPERHEATER FLOW WITH 5 PCT CAL-
				14	0	CULATED SYSTEM HEAD MARGIN.
234.1	FEEDWATER HEATERS					
234.12	HEAT TRANS EQUIP					
234.121	NO. 1 LP HEATER	MFB	356234121	01	3	QUANTITY - 1 X 100 PCT
				02	0	TYPE - SHELL AND TUBE
				021	0	PASSES 2
				03	0	ORIENTATION - HORIZONTAL
				04	3	HEAT LOAD - 2.63 E+08 BTU/HR
				041	0	APPROACH - 10 F
				042	0	TERMINAL DIFF. - 5 F
				05	3	SURFACE AREA - 21,820 SQ FT
				06	0	SHELL CONDITION:
				07	3	DES.PRESS/TEMP- 50 PSIG/310 F
				08	3	TEMP IN/OUT - 173.6 F/ 130.8
				09	3	FLOW RATE 352,279 LB/HR
				10	0	MATERIAL - CS
				11	0	SAFETY CLASS - NNS
				12	0	DESIGN CODE - ASME SECT.VIII DIV.1
				13	0	TUBE CONDITION:
				14	3	QUANTITY -
				15	0	SIZE - 5/8 IN O.D., BWG 20
				16	0	DES.PRESS/TEMP - 500 PSIG/
				17	3	TEMP IN/OUT - 120.8/165.1 F
				18	3	FLOW RATE - 5,959,512 LB/HR
				19	3	MATERIAL - 90-10 CU-N1
			356234121A	20	0	SAFETY CLASS - NNS
				21	0	DESIGN CODE - ASME SECT.VIII DIV 1
				22	0	SEISMIC CAT. - NONE

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
234.122	NO. 2 LP HEATER	MFB	356234122	01	0	QUANTITY - 2 X 50 PCT
				02	0	TYPE - SHELL AND TUBE
				021	0	PASSES - 2
				03	0	ORIENTATION - HORIZONTAL
				04	3	HEAT LOAD - 1.73 E+08 BTU/HR
				041	0	APPROACH - 10 F
				042	0	TERMINAL DIFF. - 5 F
				05	3	SURFACE AREA - 13,160 SQ FT EACH
				06	0	SHELL CONDITION:
				07	0	DES. PRESS/TEMP - 50 PSIG/310 F
				08	3	TEMP IN/OUT - 232/175.1 F
				09	3	FLOW RATE - 374,469 LB/HR
				10	0	MATERIAL - CS
				11	0	SAFETY CLASS - NNS
				12	0	DESIGN CODE - ASME SECT. VIII DIV 1
				13	0	TUBE CONDITION:
				14	3	QUANTITY -
				15	0	SIZE - 3/4 IN O.D., BWG 20
				16	0	DES. PRESS/TEMP - 500 PSIG /
				17	3	TEMP IN/OUT - 165.1/223.0 F
				18	3	FLOW RATE - 2,979,756 LB/HR
				19	3	MATERIAL - 90-10 CU-N1
			356234122A	20	0	SAFETY CLASS - NNS
				21	0	DESIGN CODE - ASME SECT. VIII DIV 1
				22	0	SEISMIC CAT. - NONE
234.123	NO. 3 DEAERATING HEATER	MFB	356234123	01	3	QUANTITY - 1
				02	3	TYPE - SINGLE STG TANK W/TRAYS
				03	3	ORIENTATION - HORIZONTAL
				04	3	RATED CAP'Y - 6,800,000 LBS/HR
				05	3	INLET STM PRESS - 60.0 PSIA
				06	3	INLET STM TEMP - 297 F
				07	3	CONDENSING TEMP - 292.7 F
				08	3	DESIGN PRESS - 30IN H6 ABS TO 125 PSIG
				09	3	DESIGN TEMP - 650 F
				10	3	STG TANK CAP'Y - 60,000 GAL
				11	3	MATERIAL - C.S. SHELLS, TYPE 304
				12	3	S.S. TRAYS
				13	3	SAFETY CLASS - NNS
				14	3	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - ASME VIII

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MODEL 356 - 0000 MWE73000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
234.124	NO. 4 HP HEATER	MFB7	356234124	01	3	QUANTITY = 2 X 50 PCT
				02	3	TYPE - SHELL AND TUBE
				03	3	PASSES - 2
				04	3	ORIENTATION = HORIZONTAL
				05	3	APPROACH 10 F
				06	3	TERM. DIFF. 5 F
				07	3	HEAT LOAD 2.08 E+08 BTU/HR
				08	3	SURFACE AREA 11,250 SQ FT EACH
				09	3	SHELL CONDITION:
				10	3	DES.PRESS/TEMP 300 PSIG/650F
				11	3	TEMP IN/OUT - 450 / 302.8 F
				12	3	FLOW RATE - 426,245 LB/HR
				13	3	MATERIAL CS
				131	3	SAFETY CLASS - NNS
				132	3	DESIGN CODE - ASME SECT VIII.DIV.1
				14	3	TUBE CONDITION:
				15	3	QUANTITY
				16	3	SIZE 3/4 IN O.D. BWG 20
				17	3	DES.PRESS/TEMP 400 PSIG/7
				171	3	TEMP IN/OUT 292.8 / 351.6 F
				18	3	FLOW RATE 3,420,000 LB/HR
				19	3	MATERIAL 90-10 CU-N1
			356234124A	23	3	SAFETY CLASS - NNS
				24	3	DESIGN CODE - ASME SECT VIII DIV.1
				25	3	SEISMIC CAT. - NONE
234.2	FEEDWATER SYS					
234.21	ROTATING MACHINERY					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
234.211	MAIN BOILER FEED PUMPS	MFA2	356234211	014	0	QUANTITY - 2 x 55 PCT
				02	0	TYPE - CENTR DBL. CASE BARREL
				03	0	ORIENTATION - HORIZ STAGES: FOUR(4)
				04	0	DESIGN:
				05	3	FLOW RATE - 7480 GPM
				06	3	TOTAL DISCH HEAD - 4020 FT
				07	3	BHP - 8886 HP
				08	3	AVAILABLE NPSH - 250 FT
				09	3	SPEED - RPM
				10	3	EFFICIENCY - 82.0 PCT
				11	3	DESIGN PRESS - 2500 PSIG
				12	0	DESIGN TEMP. - 425 F
				17	0	MATERIAL:
			356234211A	18	0	INNER CASING & IMP. - CA6NM. CHROME ST
				19	0	SHAFT - TYPE 410 HT SS.
				20	0	SAFETY CLASS - NNS
				21	0	SEISMIC CODE - NONE
				22	3	DESIGN CODE - COMMERCIAL
234.212	MFP. TURB DRIVES	MFA3	356234212	01	0	QUANTITY - 2 x 55 PCT
				02	3	TYPE - 3-STAGE, CONDENSING
				03	3	HORSEPOWER - 10,000 HP
				04	3	SPEED -
				05	0	MATERIAL - CARBON STEEL SHAFT AND
				06	0	CHROME STEEL BUCKETS
234.213	BOILER FEED BOOSTER PUMPS	MFA2	356234213	014	0	QUANTITY - 2 x 55 PCT
				02	3	TYPE - CENTRIFUGAL
				03	3	ORIENTATION - HORIZ. STAGES:
				04	0	DESIGN:
				05	3	FLOW RATE 8200 GPM
				06	3	TOTAL DISCH HEAD 500 FT
				07	3	BHP 1263 HP
				08	3	NPSH REQ'D 70 FT
				09	3	SPEED - 3550 RPM
				10	3	EFFICIENCY - 82 PCT
				11	0	DESIGN PRESS - 400 PSIG
				12	0	DESIGN TEMP - 350 F
				17	0	MATERIAL:
			356234213A	18	0	CASING & IMP - CA6NM. CHROME STL
				19	0	SHAFT - TYPE 410 HT SS.
				20	0	SAFETY CLASS - NNS
				21	0	SEISMIC CODE - NONE
				22	3	DESIGN CODE - COMMERCIAL

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
234.214	BOILER FD BOSTR PMP MTR DR	MFA1	356234214	01	3	QUANTITY - 2
				02	3	TYPE - S.C.I.M.
				03	3	HORSEPOWER - 1500 HP
				04	3	SPEED - 3600 RPM
				05	3	VOLTAGE - 4 RV
				06	3	COST INCLUDED IN 234.213
234.218	MBFP TURBINE INSTR + CNTRL	MIDX	356234218	01	0	ASSUME TURBINE EQUIP. PACKAGE INCLUDES:
				02	0	.TURBINE SPEED CONTROLS
				03	0	.TURBINE SUPERVISORY INSTRUMENTS
				04	0	.OIL RESERVOIR COMPLETE WITH PUMPS-
				05	0	LEVEL INSTRS ETC WIRED TO PANEL
				06	0	.PROVISIONS FOR REMOTE START-UP
				07	0	.ONE LOT OF INSTR FOR CONTROL PANEL
				08	0	MOUNTING-SEE 236.11
				09	0	.GAUGE BOARD COMPLETELY PIPED +
				10	0	WIRED - MTD ON TURBINE
234.25	PIPING					
234.251	2 IN & SMALLER					
234.2511	CS/SC 2	MBA1				
234.2512	CS/NNS	MBC1				
234.252	2.5 IN & LARGER					
234.2521	CS/SC 2	MBB1				
234.2522	CS/NNS	MBD1				
234.26	VALVES	MCA				
234.261	GATE					
234.262	CHECK	MCA2				
234.263	GLOBE	MCA3				
234.269	SPECIAL VALVES	MCA9				
234.2691	ISOLATION STOP VALVES	MCA9				
234.2692	ISOLATION TRIM VALVES	MCA9				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
234.2693	RECIRC CNTRL VALVES-YARWAY	MCA9	123456789012345678901234567890123456789	
234.27	PIPING-MISC ITEMS			
234.271	HANGERS + SUPPORTS	MAA		
234.272	INSULATION	MHA2		
234.273	SPECIALTIES			
234.2731	CONTAINMENT PENETRATIONS	MAB1		
234.2732	MISC. STRAINERS, ETC.	MFH1		
234.2733	GRAY-LOC COUPLINGS	MAB3		
234.28	I+C	MID		
234.3	EXTRACTION STEAM SYS			
234.35	PIPING			
234.351	2 IN + SMALLER	MBCX		
234.3511	CS/NNS	MBC1		
234.352	2.5 IN + LARGER			
234.3521	CS/NNS	MBD1		
234.36	VALVES	MCA		
234.361	GATE	MCA1		
234.362	CHECK	MCA2		
234.366	BUTTERFLY	MCA6		
234.369	SPECIAL VALVES			
234.3691	CONTROL	MCA9		
234.37	PIPING-MISC.			
234.371	HANGERS + SUPPORTS	MAA		

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
			123456789012345678901234567890123456789			
234.372	INSULATION	MHA2				
234.373	SPECIALTIES	MAB3				
234.38	I+C	MID				
234.4	FWH VENT + DRAIN SYS					
234.45	PIPING					
234.451	2 IN + SMALLER	MBCX				
234.4511	CS/NNS	MBC1				
234.452	2.5 IN + LARGER					
234.4521	CS/NNS	MBD1				
234.46	VALVES	MCA				
234.461	GATE	MCA1				
234.463	GLOBE	MCA3				
234.469	SPECIAL VALVES					
234.4691	CONTROL	MCA9				
234.47	PIPING-MISC ITEMS					
234.471	HANGERS + SUPPORTS	MAA				
234.472	INSULATION	MHA2				
234.473	SPECIALTIES	MAB3				
234.48	I+C	MID				
235.	OTHER TURB PLANT EQUIP					
235.1	MAIN VAPOR PIPING SYS.					
235.11	MAIN STEAM SYS					
235.115	PIPING & FITTINGS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR		COST BASIS 01/79	
ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL DESCRIPTION REF. NUMBER NO. NO. 123456789012345678901234567890
235.1151	2 IN + SMALLER	MBXX	
235.11511	SS/SC 2	MBA2	
235.11512	SS/NNS	MBC2	
235.1152	2.5 IN + LARGER		
235.11521	SS/SC 2	MBB2	
235.11522	SS/NNS	MBD2	
235.116	VALVES	MCA	
235.1163	GLOBE	MCA3	
235.1165	SAFETY/RELIEF	MCA5	
235.1169	SPECIAL VALVES	MCA9	
235.11691	ISOLATION VALVES	MCA9	
235.11692	CONTROL	MCA9	
235.117	PIPING-MISC ITEMS		
235.1171	HANGERS + SUPPORTS	MAA	
235.1172	INSULATION	MHA2	
235.1173	SPECIALTIES		
235.11731	CONTAINMENT PENETRATIONS	MAB1	
235.11732	STEAM TRAPS & STRAINERS	MFH1	
235.11733	GRAY-LOC COUPLINGS	MAB3	
235.118	MN STM INSTR. + CONTROL	MID	
235.1181	MN STM - NUCLEAR SIDE I+C		
235.1182	MN STM - TURBINE SIDE I+C		
235.14	MAIN VAPOR PIPE WHIP RES.	MAB2	

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.141	PLATE	GFA1				
235.142	SHEAR LUGS	GEDX				
235.143	ANCHORS	GED1				
235.144	BEAMS	GFA1				
235.145	U-BOLT AND NUTS	GFXX				
235.146	WELDS	MZXX				
235.15	PIPE SUPPORT STRUCTURES		35623515	01	0	STRUCTURES SUPPORTING THE MAJOR STEAM AND FEEDWATER PIPING BETWEEN THE RCB PIPE VAULTS AND THE TURBINE/GENERATOR BUILDING.
				02	0	
				03	0	
				04	0	
235.151	EXCAVATION WORK					
235.153	SUBSTRUCTURE CONCRETE					
235.1531	FORMWORK	GEA21				
235.1532	REINFORCING STEEL	GEB11				
235.1533	CONCRETE	GEC21				
235.1534	EMBEDDED STEEL	GED2				
235.1538	RUBBING CONCRETE SURFACES	GEE1				
235.154	SUPERSTRUCTURE					
235.1542	STRUCTURAL & MISC. STEEL					
235.15421	STRUCTURAL STEEL	GFA				
235.1549	PAINTING					
235.15492	STEELWORK	GGF2				
235.2	TURBINE AUXILIARY SYSTEM					
235.21	MAIN STEAM VENTS & DRAINS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.215	PIPE					
235.2151	2 IN + SMALLER					
235.21511	CS/NNS	MBC1				
235.2152	2.5 IN + LARGER	MBOX				
235.21521	CS/NNS	MBD1				
235.216	VALVES	MCA				
235.2163	GLOBE	MCA3				
235.2169	SPECIAL VALVES					
235.21691	CONTROL	MCA9				
235.217	PIPING-MISC. ITEMS					
235.2171	HANGERS + SUPPORTS	MAA				
235.2172	INSULATION	MHA2				
235.2173	SPECIALTIES	MAB3				
235.218	INSTRUMENTATION + CONTROL	MIA				
235.3	TB CLOSED COOL WATER SYS		3562353			
				01	0	A SINGLE CLOSED LOOP SYSTEM, CONSISTING
				02	0	OF THREE 50 PCT. CAPACITY PUMPS AND TWO
				03	0	50 PCT. HEAT EXCHANGERS, PROVIDES COOL-
				04	0	ING WATER TO TURBINE GENERATOR AUX. AND
				05	0	ASSOCIATED PLANT HEAT REJECTION EQUIP.,
				06	0	EXTRACT THE HEAT FROM THE CLOSED LOOP
				07	0	AND REJECT IT TO THE HEAT REJECTED TO
				08	0	SERVICE WATER SYSTEM.
235.31	ROTATING MACHINERY					
235.311	TB CLD COOL WTR PUMP+MOTOR	MFA1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
235.3111	TB CLOSED COOL WATER PUMP	MFA2	3562353111	01	0	QUANTITY -	3 X 50 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	5,000 GPM
				05	0	SPEED -	1,750 RPM
				06	0	TDM -	140 FT
				07	0	BHP -	213 HP
				08	0	NPSH -	16 FT
				09	0	EFFICIENCY -	83 PCT
				10	0	DESIGN PRESS -	250 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	CAST IRON CASING,
				121	0		CHROME STEEL IMPELLER
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	3	DESIGN CODE -	COMMERCIAL
235.3112	TB CLD COOL WTR PUMP MOTOR	EHXX	3562353112	01	0	QUANTITY -	3
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	250 HP
				04	0	SPEED -	1800 RPM
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
235.32	HEAT TRANS EQUIP						

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789

235.321	TB CLOSED CLG WTR HEAT XCH	MFB	356235321	01	0	QUANTITY - 2 X 50 PCT
				02	0	TYPE - SHELL:TEMA TYPE AFL
				021	0	TUBE 2 PASS
				03	0	ORIENTATION - HORIZONTAL
				04	0	HEAT LOAD - 50 E+06 BTU/HR
				05	0	SURFACE AREA - 10,150 SQ FT (TUBE)
				06	0	SHELL CONDITION:
				07	0	DES.PRESS/TEMP - 150 PSIG / 150 F
				08	0	TEMP IN/OUT - 122/102 F
				09	0	FLOW RATE - 5,000 GPM
				10	0	MATERIAL - CARBON STEEL
				11	0	SAFETY CLASS - NNS
				12	0	DESIGN CODE - ASME VIII
				13	0	TUBE CONDITION:
				14	0	QUANTITY - 1400
				15	0	SIZE - 1 IN. O.D. 20 BWG.
				16	0	DES.PRESS/TEMP - 150 PSIG /150 F
				17	0	TEMP IN/OUT - 90/100 F
				18	0	FLOW RATE - 11,000 GPM
				19	0	MATERIAL - 90-10 CU NI
				20	0	SAFETY CLASS - NNS
				21	0	DESIGN CODE - ASME VIII

235.33 TANKS + PRESS VESSELS

235.331	TB CLOSED CLG WTR HEAD TK	MFC1	356235331	01	0	QUANTITY - 1
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS - 6 FT DIA X 5 FT STRAIGHT
				04	0	VOLUME - 1,000 GAL
				05	0	DESIGN PRESS - 10 PSIG
				06	0	DESIGN TEMP - 150 F
				07	0	MATERIAL - ASTM A283 GR C
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT - NONE
				10	0	DESIGN CODE - AWWA
				17	3	TEMP IN/OUT -
				18	3	FLOW RATE -

235.35 PIPE

235.351 2 IN + SMALLER

235.3511 CS/NNS

MBC1

235.352 2.5 IN + LARGER

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.3521	CS/NNS	MBD1				
235.36	VALVES	MCA				
235.37	PIPING-MISC. ITEMS					
235.371	HANGERS & SUPPORTS	MAA				
235.372	INSULATION	MHA2				
235.373	SPECIALTIES	MAB3				
235.38	INSTRUMENTATION + CONTROL	MIA				
235.4	DEMIN WATER MAKEUP SYS	MFHX				
235.43	TANKS + PRESS VESSELS					
235.431	DEMINERALIZED WTR STG TKS	MFC3	356235431	01	3	QUANTITY - 2
				02	0	ORIENTATION - VERTICAL
				03	3	DIMENSIONS - 50FT DIA X 40FT STRGHT
				04	3	VOLUME - 600,000 GAL.
				05	0	DESIGN PRESS - ATMOSPHERIC
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - EPOXY LINED CARBON ST'L
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - AWWA
235.45	PIPE		35623545	01	0	INCLUDED WITH SKID
235.46	VALVES	MCAx	35623546	01	0	INCLUDED WITH SKID
235.47	PIPING-MISC. ITEMS	MAXX				
235.48	INSTRUMENTATION + CONTROL	MIA	35623548	01	0	DEMIN WATER MAKEUP SYSTEM PURCHASE
				02	0	PACKAGE INCLUDES:
				03	0	1 - CONTROL PANEL-10W X 8D X7.5FT HI
				04	0	8 - INSTR RACKS PIPED + WIRED
				05	0	
				06	0	ADDITIONAL INSTRUMENTATION INCLUDES:
				08	0	
235.49	FOUNDATIONS/SKID					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	
235.491	DEMIN WTR MAKEUP EQ (SKID)	MFH2	356235491	01	3	FLOW RATE - 6,800,000 GAL PER DAY TYPE - ACTIVATED CARBON PREFILTER, FOLLOWED BY A CATION-VACUUM DEGAS- IFIER-ANION-MIXED BED TANKS; TWO TRAINS OF CARBON AND DEMINERALIZER BEDS AND ONE COMMON DEGASIFIER.	
				02	0		
				03	0		
				04	0		
				05	0		
				06	0		
235.4911	ROTATING MACHINERY						
235.49111	ACID REGEN PUMP + MOTOR	MFA1					
235.491111	ACID REGEN PUMP	MFA2	356235491111	01	0	QUANTITY - 2 X 100 PCT TYPE - POSITIVE DISPLACEMENT ORIENTATION - HORIZONTAL FLOW RATE - 0 TO 190 GPM SPEED - 1,800 RPM TDH - 100 FT NPSH - 10 FT DESIGN PRESS - 100 PSIG DESIGN TEMP - 150 F MATERIAL - ALLOY 20 SAFETY CLASS - NNS SEISMIC CAT. - NONE DESIGN CODE -	
				02	0		
				03	0		
				04	0		
				05	0		
				06	0		
				08	0		
				10	0		
				11	0		
				12	0		
				13	0		
				14	0		
				15	0		
235.491112	ACID REGEN PUMP MOTOR	EHXX	356235491112	01	0		QUANTITY - 2 TYPE - S.C.I.M. HORSEPOWER - 3/4 HP SPEED - 1,800 RPM VOLTAGE - 460 V, 3 PHASE, 60 HZ
				02	0		
				03	0		
				04	0		
				05	0		
235.49112	CAUSTIC REGEN PUMP + MOTOR	MFA1					

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
235.491121	CAUSTIC REGEN PUMP	MFA2	356235491121	01	0	QUANTITY =	2 X 100 PCT
				02	0	TYPE -	POSITIVE DISPLACEMENT
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	0 TO 85 GPH
				05	0	SPEED -	1,800 RPM
				06	0	TDH -	100 FT
				08	0	NPSH -	10 FT
				10	0	DESIGN PRESS -	100 PSIG
				11	0	DESIGN TEMP -	150 F
				12	0	MATERIAL -	316 SS
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
235.491122	CAUSTIC REGEN PUMP MOTOR	EHXX	356235491122	01	0	QUANTITY -	2
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	3/4 HP
				04	0	SPEED -	1,800 RPM
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
235.49113	DEGASIFIER EVAC PUMP+MOTOR	MFA1					
235.491131	DEGASIFIER EVACUATING PUMP	MFA2	356235491131	01	0	QUANTITY -	3 X 50 PCT
				02	0	TYPE -	ROTARY WATER SEALED
				03	0	ORIENTATION -	HORIZONTAL
				04	0	FLOW RATE -	260 ACFM AT 20 MM HG.A
				05	0	SPEED -	1800 RPM
				07	0	BHP -	30 HP
				10	0	DESIGN PRESS -	VAC/50 PSIG
				11	0	DESIGN TEMP -	100 F
				12	0	MATERIAL -	CS
				13	0	SAFETY CLASS -	NNS
				14	0	SEISMIC CAT. -	NONE
				15	0	DESIGN CODE -	
235.491132	DEGASIFIER EVAC PUMP MOTOR	EHXX	356235491132	01	0	QUANTITY -	3
				02	0	TYPE -	S.C.I.M.
				03	0	HORSEPOWER -	30 HP
				04	0	SPEED -	1800 RPM
				05	0	VOLTAGE -	460 V, 3 PHASE, 60 HZ
235.49114	DEGASIFIED WATER PUMP+MTR	MFA1					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.491141	DEGASIFIED WATER PUMP	MFA2	356235491141	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	3	FLOW RATE - 4722 GPM
				05	0	SPEED - 3,500 RPM
				06	0	TDH - 230 FT
				07	3	BHP - 306 HP
				08	0	NPSH - 10 FT
				09	0	EFFICIENCY - 75 PCT
				10	0	DESIGN PRESS - 150 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - 316 SS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
235.491142	DEGASIFIED WATER PUMP MTR	EHXX	356235491142	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	3	HORSEPOWER - 350 HP
				04	3	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
235.4913	TANKS + PRESSURE VESSELS					
235.49131	DEGASIFIER	MF87	35623549131	01	3	DEGASIFIER - 10 FT DIAMETER BY 18 FT
				02	3	STRAIGHT SIDE
235.49132	HOT WATER HEATING/STG TANK	MFCX	35623549132	01	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 7 FT OD X 8 FT STR SIDE
				04	0	VOLUME - 315 CU FT
				05	0	DESIGN PRESS - 75 PSIG
				06	0	DESIGN TEMP - 150 F
				07	0	MATERIAL - CARBON STEEL
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - ASME VIII
235.4914	PURIF + FILTRATION EQUIPMT					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.49141	FILTERS	MFH1	35623549141	01	3	QUANTITY = 4
				02	3	TYPE = HORIZONTAL
				021	3	FILTER MEDIA = 2000 CU FT CARBON
				022	3	VESSEL SIZE = 12 FT DIA TANKS
				023	3	X 36 FT STRAIGHT
				03	3	FLOW RATE 4722 GPM
				04	0	DESIGN PRESS = 100 PSIG
				05	0	DESIGN TEMP = 100 F
				06	0	DIFF. PRESS:
				07	0	CLEAN/DIRTY =
				08	0	RATING/SIZE =
				09	0	MATERIAL = C.S.-PHENOLIC LINED
				11	0	SAFETY CLASS = NNS
				12	0	SEISMIC CAT. = NONE
				13	0	DESIGN CODE = ASME VIII
235.49142	CATION BED	MFH3	35623549142	01	3	QUANTITY = 6
				02	0	ORIENTATION = VERTICAL
				03	3	RESIN TYPE = C211
				05	3	SIZE = 12 FT DIAMETER X 14 FT
				051	0	STRAIGHT
				06	3	RESIN VOLUME = 900 CU FT
				07	3	FLOW RATE = 4722 GPM
				08	3	FREEBOARD =
				09	0	BED DEPTH = 4 FT 6 IN
				10	0	DESIGN PRESS = 100 PSIG
				11	0	DESIGN TEMP = 100 F
				12	0	MATERIAL = C.S. RUBBER LINED
				13	0	SAFETY CLASS = NNS
				14	0	SEISMIC CAT = NONE
				15	0	DESIGN CODE = ASME VIII

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.49143	ANION BED	MFH3	35623549143	01	0	QUANTITY - 2
				02	0	ORIENTATION - VERTICAL
				021	3	RESIN TYPE - A264
				03	3	SIZE - 12 FT DIA X 14 FT
				031	0	STRAIGHT
				04	3	RESIN VOLUME - 900 CU FT
				05	3	FLOW RATE - 4722 GPM/SQ FT
				06	3	FREEBOARD -
				07	3	BED DEPTH -
				08	0	DESIGN PRESS - 100 PSIG
				09	3	BED DEPTH -
				10	0	MATERIAL - C.S. - RUBBER LINED
				11	0	SAFETY CLASS - NNS
				12	0	SEISMIC CAT - NONE
				13	0	DESIGN CODE - ASME VIII
235.49144	MIXED BED	MFH3	35623549144	01	3	QUANTITY - 3
				011	0	ORIENTATION - VERTICAL
				02	3	RESIN TYPE - C381
				021	3	A74
				03	3	SIZE - 12 FT DIA TANKS + 18 FT
				04	3	RESIN VOLUME - 450 CU FT
				041	0	40 CU FT OF IRA-402
				05	3	FLOW RATE - 4722 GPM
				06	3	FREEBOARD -
				07	3	BED DEPTH -
				08	0	DESIGN PRESS - 100 PSIG
				09	0	DESIGN TEMP - 100 F
				10	0	MATERIAL - C.S. - RUBBER LINED
				11	0	SAFETY CLASS - NNS
				12	0	SEISMIC CAT. - NONE
				13	0	DESIGN CODE - ASME VIII
235.492	DEMINS TG TANK FOUNDATION					
235.4921	EXCAVATION WORK					
235.49211	EARTH EXCAVATION	GCA12				
235.4922	CONCRETE WORK					
235.49221	FORMWORK	GEA21				
235.49222	REINFORCING STEEL	GEB11				

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MODEL 356 - 0000 MWE/3000 MWT HYGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.49223	CONCRETE	GEC21				
235.4923	COMPACTED SAND BED	GCC5				
235.5	CHEM TREATMENT SYS	MFHX				
235.51	ROTATING MACHINERY					
235.511	AMMONIA FEED PUMP + MOTOR	MFA1				
235.5111	AMMONIA FEED PUMP	MFA2	356235511	01	0	QUANTITY - 2
				02	3	TYPE - DIAPHRAGM POS. DISPL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 5 GPH
				05	3	SPEED -
				06	3	TDH - 750 FT
				08	0	NPSH - 10 FT
				10	3	DESIGN PRESS 500 PSI
				11	0	DESIGN TEMP - 150 F
				12	0	MATERIAL - SS
				13	0	SAFETY CLASS - MNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
235.5112	AMMONIA FEED PUMP MOTOR	EHXX	356235512	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	3	HORSEPOWER 1/2 HP
				04	3	SPEED -
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
235.512	HYDRAZINE FEED PUMP+MOTOR	MFA1	356235512	01	0	THE PRICE INDICATED FOR THESE PUMPS
				02	0	INCLUDES THE COST OF THE HYDRAZINE
				03	0	STORAGE TANK DESCRIBED IN 235.532

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
235.5121	HYDRAZINE FEED PUMP	MFA2	3562355121	01	0	QUANTITY - 2
				02	0	TYPE - CENTRIFUGAL
				03	3	ORIENTATION - DIAPHRAGM POS. DISPL
				04	0	FLOW RATE - 5 GPH
				05	0	SPEED - 1,800 RPM
				06	3	IDH - 750 FT
				08	0	NPSH - 10 FT
				10	3	DESIGN PRESS - 500 PSI
				11	0	DESIGN TEMP - 150 F
				12	0	MATERIAL - SS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
235.5122	HYDRAZINE FEED PUMP MOTOR	EHXX	3562355122	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	3	HORSEPOWER - 1/2 HP
				04	0	SPEED - 1,800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
235.53	TANKS + PRESS VESSELS					
235.531	AMMONIA STORAGE TANK	MFC1	356235531	014	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 2 FT 6 IN DIA X 3 FT
				031	0	STRAIGHT
				04	0	VOLUME - 100 GAL
				05	0	DESIGN PRESS - ATMOS.
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - S.S.
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	3	DESIGN CODE - ASME VIII
235.532	HYDRAZINE STORAGE TANK	MFC1	356235532	014	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 2 FT 6 IN DIA X 3 FT
				031	0	STRAIGHT
				04	0	VOLUME - 100 GAL
				05	0	DESIGN PRESS - ATMOS.
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - S.S.
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	3	DESIGN CODE - ASME VIII

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO.	DESCRIPTION
235.55	PIPE				
235.56	VALVES				MCA3
235.57	PIPE-MISC. ITEMS				
235.571	HANGERS + SUPPORTS				MAA3
235.572	INSULATION				MHA2
235.573	SPECIALTIES				MAB3
235.58	INSTRUMENTATION + CONTROL				MID
236.	INSTRUMENTATION + CONTROL				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR

- COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
236.1	TURBINE PLANT CONTROL SYS	MIDX	3562361	01	0	I&C DEVICES NOT INCLUDED IN ACCOUNT 236
				02	0	ARE ITEMIZED WITH THEIR RESPECTIVE
				03	0	PROCESS SYSTEMS NAMELY:
				04	0	
				045	0	231.18 T/G INSTR & CONTROL
				05	0	231.48 TURBINE LUBE OIL SYS
				07	0	233.28 CONDENSATE SYSTEM
				08	0	233.318 CONDENSER GAS REMOVAL
				09	0	233.418 MN TURB STM BYPASS SYSTEM
				10	0	233.428 HOT REHEAT BYPASS SYSTEM
				11	0	233.58 CONDENSATE POLISHING SYSTEM
				115	0	234.218 MBFP TURBINE INSTR & CNTRL
				12	0	234.28 FEEDWATER SYSTEM
				13	0	234.38 EXTRACTION STEAM SYSTEM
				14	0	234.48 FW HTR VENTS + DRAINS
				15	0	235.118 MAIN STEAM SYSTEM
				16	0	235.128 HOT REHEAT SYSTEM
				17	0	235.138 COLD REHEAT SYSTEM
				18	0	235.218 MN/RH STEAM VENTS + DRAINS
				19	0	235.38 TB CLOSED COOLING WATER
			3562361A	20	0	235.48 DEMIN WATER MAKEUP SYSTEM
				01	0	235.58 FW CHEMICAL TREATMENT
				03	0	252.118 COMPRESSED AIR SYSTEMS
				04	0	252.218 SERVICE WATER SYSTEM
				05	0	252.228 FIRE PROTECTION SYSTEM
				06	0	252.248 POTABLE WATER SYSTEM
				08	0	252.39 AUX STEAM SYSTEM I&C
				09	0	262.118 TRAVELLING SCREENS + ASSOC.
				10	0	AUXILIARIES
				11	0	262.128 CIRCULATING WATER
				12	0	262.138 MAIN COOLING TOWERS (CT)
				13	0	262.1518 MAKE-UP WATER SYSTEM
236.11	CENTRAL CONTROL ROOM PANEL					
236.111	MAIN OPERATOR CONSOLE	EEA1	356236111	01	3	2 SECTIONS TO MATCH + LINE-UP WITH GE
				02	0	FURNISHED CONSOLE SECTIONS PER 227.111
				03	0	XX FW-COND-WATER SYS CONSOLE
				04	0	XXX TURB-GEN + AUXILIARY
				05	0	ELECTRIC POWER SYSTEM
				06	0	PER ACCOUNT 243.11

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EQUIPMENT LIST - REPORT 2

09/12/79

MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01779

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
236.112	TURBINE CCR PANELS	EEB3	356236112	01	0	QUANTITY:	7 - BY TURBINE SUPPLIER
				02	0	SIZE:	3FT X 3FT X 7.5FT
				03	0	WEIGHT:	1800 LBS EACH
				04	0	EHC CONTR	
				05	0	EHC CONTROL PANEL -	5
				06	0	TURBINE SUPERVISORY PANEL -	2
				07	0	EHC SUB-PANELS FOR MOUNTING ON	
				08	0	CONSOLE/VERTICAL PANEL -	2
236.113	HVAC PANEL IN CCR	EEB3	356236113	01	0	QUANTITY:	7 - SECTIONS
				02	0	SIZE:	2FT X 3FT X 8FT EACH
				03	0	WEIGHT:	1200 LBS EACH
236.114	HVAC PANEL IN CCR	EEB3	356236114	01	0	QUANTITY:	7 - SECTIONS
				02	0	SIZE:	2FT X 3FT X 8FT EACH
				03	0	WEIGHT:	1200 LBS EACH
236.115	INSTRUMENT RACK-TURB PLANT	MID	356236115	01	3	LOCAL INSTR. RACK-	37
236.116	BOP HEAT CYCLE PANELS	EEB3	356236116	01	0	QUANTITY:	40 - SECTIONS
				02	0	SIZE:	2FT X 3FT X 8FT EACH
				03	0	WEIGHT:	1200 LBS EACH
236.117	CHEMICAL HEAT PIPE PANELS		356236117	01	3	QUANTITY -	8 - SECTIONS
				02	3	SIZE:	2 FT X 3 FT X 8 FT EACH
				03	3	WEIGHT:	1800 LBS EACH
236.12	TURBINE PNLS EXT TO CCR	MID	35623612	01	0	QUANTITY:	12 - BY TURBINE SUPPLIER
				011	0	SIZE + WEIGHT:	VARIABLE
				02	0	SERVICE APPLICATIONS:	
				03	0	TURNING GEAR MOTOR LOCAL CTL PNL	1
				04	0	BEARING LIFT PUMP -	8
				05	0	STATOR COOLANT PANEL -	1
				06	0	SEAL OIL PANEL -	1
				07	0	GLAND STEAM SEALING PANEL -	1
236.2	COMPUTER SYSTEM FOR BOP	MIBX	3562362	01	3	DUAL COMPUTER SYSTEM PROVIDED BY GE	
				02	0	INCLUDES ALL BOP FUNCTIONS INCLUDING:	
				03	0	HARDWARE	
				04	0	BOP SOFTWARE	
				05	0	MAN-MACHINE COMMUNICATIONS	
				06	0	SEE ACCOUNT 227.2	
236.3	INSTRUMENT TUBING & FITTING	MID	3562363	01	0	TUBING -	35000 LF

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
237.	TURBINE PLANT MISC ITEMS					
237.1	MISC SUSPENSE ITEMS					
237.11	PIPE	MBXX				
237.12	FIELD PAINTING	GGF				
237.13	QUALIFICATION OF WELDERS	MJB				
237.3	TURBINE PLANT INSULATION					
237.31	PIPE INSULATION	MHA2				
237.32	EQUIPMENT INSULATION	MHB				
24.	ELECTRIC PLANT EQUIP					
241.	SWITCHGEAR					
241.1	GEN EQUIP SWGR					
241.11	GEN LOAD BREAK SWITCH	EGA2	35624111	01	0	THREE SINGLE POLE METAL ENCLOSED LOAD
				02	0	BREAK SWITCHES WITH WATER COOLED
				03	0	CONDUCTORS PLUS ONE SPARE POLE.
				04	0	NOMINAL VOLTAGE 26 KV
				05	0	RATED MAX VOLTAGE 36 KV
				06	0	RATED FREQUENCY 60 HZ
				07	0	RATED CONT CURRENT:
				08	0	(FORCE COOLED/SELF COOLED) 40/22 KA
				09	0	RATED BREAKING CURRENT AT
				10	0	24.5 KV (SYMMETRICAL) 35 KA
				11	0	RATED MAKING CURRENT (PEAK) 450 KA
241.12	GEN NEUTRAL GROUNDING EQPT	EGA1	35624112	02	0	GENERATOR NEUTRAL GROUNDING CUBICLES
				03	0	CONSISTING OF:
				04	0	TRANSFORMER - 50 KVA, SINGLE PHASE
				05	0	22,900 - 240 VOLTS
				06	0	SELF COOLED
				07	0	RESISTOR - INDOOR, 0.375 OHM, 1200 VOLT
				08	0	400 A FOR 1 MINUTE

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
241.13	GEN CURRENT + POTEN XFMR	EGA1	35624113	01	0	EACH GENERATOR PROVIDED WITH TWO CT'S
				02	0	PER BUSHING RATED AT 24 KA
				03	0	EACH GENERATOR PROVIDED WITH SIX PT'S
				04	0	RATED AT 26,000/120 VOLTS AND CONNECT-
				05	0	ED WYE-WYE
241.14	GEN SURGE PROTECTION EQUIP		35624114	01	0	EACH GENERATOR PROVIDED WITH ONE 30 KV
				02	0	LIGHTNING ARRESTER AND ONE 0.125
				03	0	MICROFARAD CAPACITOR PER PHASE
241.15	GEN EXCITATION SWGR		35624115	01	0	EACH GENERATOR PROVIDED WITH EXCITATION
				02	0	SWITCHGEAR CONSISTING OF
				04	0	EXCITER FIELD CIRCUIT BREAKER AND
				05	0	VOLTAGE REGULATOR.
241.2	STATION SERVICE SWGR					
241.21	MEDIUM VOLTAGE METAL CLAD					
241.211	13.8 KV					
241.2111	NON-CLASS 1E 13.8 KV					
241.2112	CLASS 1E 13.8 KV					
241.212	6.9 KV					
241.2121	NON-CLASS 1E 6.9 KV					
241.2122	CLASS 1E 6.9 KV					
241.213	4.16 KV					

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EQUIPMENT LIST - REPORT 2

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
241.2131	NON-CLASS 1E 4.16 KV	EDA4	3562412131	01	0	SIX 4.16 KV BUSES, FOUR AT 2000 A AND TWO AT 1200 A, CONSISTING OF INDOOR, METAL CLAD SWITCHGEAR:
				02	0	
				04	0	
				05	0	NOMINAL VOLTAGE - 5 KV
				06	0	NOMINAL MVA CLASS - 350 MVA
				07	0	CONTINUOUS CURRENT:
				08	0	A. 2000 A BUS:
				09	0	INCOMING LINE ACB - 2000 A
				10	0	BRANCH FEEDER ACB - 1200 A
				11	0	B. 1200 A BUS
				12	0	INCOMING LINE ACB - 1200 A
				13	0	BRANCH FEEDER ACB - 1200 A
				14	0	RATED SHORT CIRCUIT
				15	0	CURRENT - 41,000 A RMS @ 4.76 KV
				16	0	INTERRUPTING TIME - 5 CYCLES
				17	0	CLOSING AND CATCHING CAPABILITY:
				18	0	78,000 A RMS @ 4.76 KV
				19	0	QUANTITIES:
				20	0	2000 A - 8
				21	0	1200 A - 34
				22	0	PT COMPARTMENTS - 16
			3562412131A	23	0	EACH BUS IS COMPLETE WITH METERING, PROTECTIVE RELAYING, CONTROL LOGIC.
				24	0	
241.2132	CLASS 1E 4.16 KV	EDA4	3562412132	01	0	THREE 4.16 KV BUSES CONSISTING OF INDOOR METALCLAD SWITCHGEAR
				02	0	QUALIFIED AS CLASS 1E EQUIPMENT
				03	0	
				05	0	NOMINAL VOLTAGE - 5 KV
				06	0	NOMINAL MVA CLASS - 350 MVA
				07	0	CONTINUOUS CURRENT -
				08	0	ACB'S: 1200 A
				09	0	BUS: 1200 A
				10	0	RATED SHORT CIRCUIT - 41,000 A RMS @ 4.76 KV
				11	0	
				12	0	INTERRUPTING TIME - 5 CYCLES
				13	0	CLOSING AND LATCHING CAPABILITY:
				131	0	78,000 A RMS @ 4.76 KV
				14	0	QUANTITIES:
				15	0	1200 A - 27
				16	0	PT COMPARTMENTS - 12
				17	0	EACH BUS IS COMPLETE WITH METERING, PROTECTIVE RELAYING, AND CONTROL LOGIC.
				18	0	

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EQUIPMENT LIST - REPORT 2

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
241.214	0-G LOAD SEQ. LOGIC PANELS	EDA6	356241214	01	0	THREE LOGIC CABINETS COMPLETE WITH
				02	0	FREE STANDING METAL ENCLOSURE, WIRING,
				03	0	AND LOGIC FOR DIESEL-GENERATOR LOAD
				04	0	SEQUENCING AND CLASS 1E BUS SWITCHING
241.22	STATION MTR CNTRL CENTERS					

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR.

- COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
241.221	NON-CLASS 1E 480 V MCC	EDAS	356241221	01	0	TWENTY FOUR MOTOR CONTROL CENTERS OF
				02	0	STANDARD NEMA CLASS 1 CONSTRUCTION WITH
				03	0	TYPE B WIRING, DRAWOUT TYPE, A 600 A
				04	0	HORIZONTAL BUS, A 300 A VERTICAL BUS
				05	0	AND BRACED FOR 22,000 A RMS SYMMETRICAL
				06	0	MOTOR FEEDERS:
				07	0	COMBINATION STARTERS:
				08	0	CIRCUIT BREAKER- MOLDED CASE, 600 V,
				09	0	25000 AIC ADJUSTABLE INSTANTANEOUS
				10	0	MAGNETIC TRIP.
				11	0	CONTACTOR - 3 POLE, 600 V, FULL
				12	0	VOLTAGE MAGNETIC WITH ONE THERMAL
				13	0	OVERLOAD PER PHASE, AND ONE 480-
				14	0	120 V CONTROL TRANSFORMER,
				15	0	MISC. FEEDERS - SIMILAR TO MOTOR
				16	0	FEEDERS EXCEPT THERMAL MAGNETIC
				17	0	CIRCUIT BREAKERS AND NO THERMAL
				18	0	OVERLOAD UNITS.
				19	0	LIGHTING AND MISC. LOADS:
				20	0	CIRCUIT BREAKERS- MOLDED CASE TYPE
				21	0	600V, 25,000 AIC, THERMAL MAGNETIC
			356241221A	22	0	SPACE HEATER LOAD (SHL) WITH PACKAGE:
				23	0	MAIN CIRCUIT BREAKER - MOLDED CASE
				24	0	600V, 25,000 AIC, THERMAL MAGNETIC
				25	0	DISTRIBUTION PANEL - 12 OR 24
				26	0	SINGLE POLE, 20A, E FRAME ACB,
				27	0	120/240V, THREE WIRE.
				28	0	TRANSFORMER - SINGLE PHASE, DRY
				29	0	TYPE, 480- 120/240V, 60 HZ, 7.5 KVA
				30	0	FOR 12 CIRCUIT PANELS OR 15 KVA
				31	0	FOR 24 CIRCUIT PANELS.
				32	0	QUANTITIES: FULL VOLTAGE, SINGLE SPEED,
				33	0	NON-REVERSING COMBINATION STARTERS
				34	0	NEMA SIZE 1-197; 2- 67; 3- 18; 4- 5
				35	0	FULL VOLTAGE, SINGLE SPEED REVERSING
				36	0	COMBINATION STARTERS
				37	0	NEMA SIZE 1- 215
				38	0	FULL VOLTAGE, SINGLE SPEED, NON-
				39	0	REVERSING CONTACTOR.
				40	0	NEMA SIZE 1- 40; 3- 3; 4- 1
				41	0	CIRCUIT BREAKERS: 100 A FRAME - 262
				42	0	225 A FRAME - 23
				43	0	SHL PACKAGES: 24 CIRCUIT - 18; 12CKT-6
				44	0	PRIMARY AIR CIRC. BREAKER-600A - 1

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
241.222	CLASS 1E 480 V MCC	EDAS	356241222	01	0	SIMILAR TO THE DESCRIPTION OF ACCOUNT 241.221 EXCEPT THAT THERE ARE NINETEEN MOTOR CONTROL CENTERS AND EACH HAS BEEN QUALIFIED AS CLASS 1E EQUIPMENT.
				02	0	
				03	0	
				04	0	
				05	0	QUANTITIES:
				06	0	FULL VOLTAGE, SINGLE SPEED NON-
				07	0	REVERSING COMBINATION STARTERS
				08	0	NEMA SIZE 1 - 85
				09	0	NEMA SIZE 2 - 33
				10	0	NEMA SIZE 3 - 24
				11	0	NEMA SIZE 4 - 15
				12	0	FULL VOLTAGE, SINGLE SPEED
				13	0	REVERSING COMBINATION STARTERS
				14	0	NEMA SIZE 1 - 117
				15	0	FULL VOLTAGE, SINGLE SPEED, NON-
				16	0	REVERSING CONTACTORS
				17	0	NEMA SIZE 1 - 5
				17.1	0	NEMA SIZE 2 - 7
				172	0	NEMA SIZE 3 - 4
				18	0	NEMA SIZE 4 - 2
				19	0	CIRCUIT BREAKERS:
				20	0	100 A FRAME - 101
			356241222A	221	0	225 A FRAME - 23
				222	0	600 A FRAME - 6
				223	0	SHL PACKAGE,
				23	0	12 CIRCUIT - 17
				24	0	24 CIRCUIT - 2
242.	STATION SERVICE EQUIP					
242.1	STATION SERV & STARTUP XFMR					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
242.11	UNIT AUXILIARY TRANSFORMER	ECB	35624211	01	0	TWO TRANSFORMERS
				02	0	TYPE - OUTDOOR, OIL-INSULATED, THREE
				03	0	PHASE, THREE WINDING
				04	0	COOLING - OA/FA/FOA
				05	0	TEMPERATURE RISE - 55/65 C
				06	0	RATING(@ 55C RISE) -
				07	0	H WINDING - 18/24/30 MVA
				08	0	X WINDING - 9/12/15 MVA
				09	0	Y WINDING - 9/12/15 MVA
				10	0	VOLTAGE -
				11	0	H WINDING - 24.5 KV
				12	0	X WINDING - 4.16 KV
				13	0	Y WINDING - 4.16 KV
				14	0	CONNECTIONS -
				15	0	H WINDING - DELTA
				16	0	X WINDING - WYE, HIGH RESIST. GRND
				17	0	Y WINDING - WYE, HIGH RESIST. GRND
				18	0	TAPS - TWO INDEPENDENT AUTOMATIC LOAD
				181	0	TAP CHANGERS, ONE ON EACH SECONDARY
				19	0	WINDING WITH A RANGE OF 20 PERCENT
			35624211A	01	0	ABOVE AND 10 PERCENT BELOW NORMAL.
				011	0	BIL -
				02	0	H WINDING AND BUSHING - 150 KV
				23	0	X WINDING AND BUSHING - 75 KV
				24	0	Y WINDING AND BUSHING - 75 KV
				25	0	IMPEDANCE -
				26	0	H-X: 7.8 PCT
				27	0	H-Y: 7.8 PCT
				28	0	NOISE LEVEL 63/65 DB(A) (OA/FA)

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
242.12	RESERVE AUX XFMR	ECB	35624212	01	0	ONE 55 PCT SIZE TRANSFORMER
				02	0	TYPE - OUTDOOR, OIL INSULATED
				03	0	THREE PHASE, THREE WINDING
				04	0	COOLING - OA/FA/FOA
				05	0	TEMPERATURE RISE - 55/65C
				06	0	RATING(@ 55C RISE) -
				07	0	H WINDING - 18/24/30 MVA
				08	0	X WINDING - 11/14.66/18.32 MVA
				09	0	Y WINDING - 11/14.66/18.32 MVA
				10	0	VOLTAGE -
				11	0	H WINDING - 230 KV
				12	0	X WINDING - 4.16 KV
				13	0	Y WINDING - 4.16 KV
				14	0	CONNECTIONS -
				15	0	H WINDING - WYE, SOLIDLY GROUNDED
				16	0	X WINDING - WYE, HIGH RESISTANCE GRND
				17	0	Y WINDING - WYE, HIGH RESISTANCE GRND
				18	0	TAPS - TWO INDEPENDENT AUTOMATIC
				19	0	LOAD TAP CHANGERS, ONE ON EACH
			35624212A	20	0	SECONDARY WINDING WITH A RANGE OF
				201	0	20 PCT ABOVE AND 10 PCT BELOW
				202	0	NORMAL
				21	0	BIL -
				22	0	H WINDING AND BUSHING - 900 KV
				23	0	X WINDING AND BUSHING - 75 KV
				24	0	Y WINDING AND BUSHING - 75 KV
				25	0	IMPEDANCE
				26	0	H-X : 7.68 PCT (@ 18 MVA)
				27	0	H-Y : 7.68 PCT (@ 18 MVA)
				28	0	NOISE LEVEL - 68/70 DB(A) (OA/FA)
242.13	FOUNDATIONS FOR XFMR					
242.131	EXCAVATION WORK					
242.1311	EARTH EXCAVATION	GCA1				
242.1312	ROCK EXCAVATION	GCA3				
242.1313	CONCRETE FILL	GEC1				
242.1314	FILL+BACKFILL	GCC1				
242.1315	DEWATERING	GCBX				

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MODEL 356 - 0000 MWE/3000 MWT HT6R - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
242.132	SUBSTRUCTURE CONCRETE					
242.1321	FORMWORK	GEA21				
242.1322	REINFORCING STEEL	GEB11				
242.1323	CONCRETE	GEC21				
242.1324	EMBEDDED STEEL	GED2				
242.1325	FLOOR FINISH	GEE2				
242.1326	WATERPROOFING	GEFX				
242.1327	CONSTRUCTION JOINTS	GEG				
242.1328	RUBBING CONCRETE SURFACES	GEE1				
242.133	CRUSHED STONE FILL	GCC4				
242.2	UNIT SUBSTATIONS					
242.21	LOAD CENTER SWGR					
242.211	NON-CLASS 1E SWITCHGEAR	EDB1	356242211			
				01	0	TEN 480 VOLT LOAD CENTER BUSES
				02	0	CONSISTING OF INDOOR DEAD FRONT
				03	0	METAL-ENCLOSED SWITCHGEAR:
				04	0	TYPE - STORED ENERGY DRAWOUT, THREE
				05	0	POLE, SINGLE THROW ACB'S WITH DIRECT
				06	0	ACTING OVER CURRENT TRIPPING DEVICE
				07	0	VOLTAGE - 600 V
				071	0	BUS RATING - 4 @ 2000 A, 6 @ 1600 A
				08	0	FRAME SIZES AND QUANTITY
				09	0	800 A - 78
				10	0	1600 A - 6
				11	0	2000 A - 4
				12	0	INTERRUPTING RATING -
				13	0	800 A - 30,000 A
				14	0	1600 A - 50,000 A
				15	0	2000 A - 50,000 A

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
242.212	CLASS 1E SWITCHGEAR	EDB1	356242212	01	0	SIMILIAR TO THE DESCRIPTION OF ACCOUNT NO. 242.211 EXCEPT THERE ARE TEN BUSES AND ALL EQUIPMENT IS QUALIFIED CLASS 1E:
				02	0	
				03	0	
				04	0	
				041	0	BUS RATING - 4 @ 2000 A, 6 @ 1600 A
				042	0	QUANTITIES -
				043	0	800 A - 61
				044	0	1600 A - 6
				05	0	2000 A - 4
242.22	LOAD CENTER XFMRs					
242.221	NON-CLASS 1E TRANSFORMERS	EDB2	356242221	01	0	INDOOR VENTILATED DRY TYPE TRANSFORMERS COMPLETE WITH DISCONNECT SWITCHES FOR COOLING TOWER LOOP FEED, CONTROL AND PROTECTION EQUIPMENT:
				02	0	
				021	0	
				03	0	
				04	0	RATING/QUANTITY-1000/1333 KVA: 4
				041	0	750/1000 KVA: 6
				042	0	500 KVA: 1
				07	0	COOLING - AA/FA OR AA
				08	0	VOLTAGE - 4160 - 480 VOLTS
				09	0	TEMPERATURE RISE - 150 C
				10	0	CONNECTIONS - DELTA-WYE
242.222	CLASS 1E TRANSFORMERS	EDB1	356242222	01	0	SIMILIAR TO THE DESCRIPTION OF ACCOUNT NO. 242.221 EXCEPT THERE ARE TEN TRANSFORMERS AND EACH IS QUALIFIED AS CLASS 1E EQUIPMENT.
				02	0	
				03	0	
				04	0	
				05	0	RATING/QUANTITY-1000/1333 KVA: 4
				06	0	750/1000 KVA: 6
242.23	MISCELLANEOUS TRANSFORMERS	EDB2				
242.3	AUX POWER SOURCES					
242.31	BATTERY SYS					
242.311	STATION BATTERIES					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
242.3111	NON-CLASS 1E BATTERY	EDC1	3562423111	01	0	TWO 125 VOLT BATTERIES CONFIGURED AS
				02	0	ONE 125/250 VOLT, 3 WIRE BATTERY
				03	0	TYPE - LEAD ANTIMONY
				04	0	NUMBER OF CELLS - 60 EACH
				05	0	NOMINAL CAPACITY - 1050 AH
				06	0	(AT 8 HR DISCHARGE RATE)
				07	0	COMPLETE WITH BATTERY RACKS.
242.3112	CLASS 1E BATTERY	EDC1	3562423112	01	0	THREE 125 VOLT BATTERIES
				02	0	QUALIFIED AS CLASS 1E EQUIPMENT:
				03	0	TYPE - LEAD ANTIMONY
				04	0	NUMBER OF CELLS - 60 CELLS
				05	0	NOMINAL CAPACITY - 2 @ 1800 AH AND
				051	0	1 @ 800 AH
				06	0	(AT 8 HR DISCHARGE RATE)
				07	0	COMPLETE WITH SEISMIC BATTERY RACKS.
				08	0	
242.312	BATTERY CHARGERS					
242.3121	NON-CLASS 1E CHARGER	EDC2	3562423121	01	0	THREE BATTERY CHARGERS (TWO INSTALLED
				02	0	AND ONE STORED SPARE) TO SUPPLY THE
				021	0	NON-ESSENTIAL 125/250 V DC BUS:
				03	0	INPUT - 480 V AC, 3 PHASE, 60 HZ
				04	0	OUTPUT - 125 V DC
				05	0	RATING 300 AMPS
242.3122	CLASS 1E CHARGER	EDC2	3562423122	01	0	SIX BATTERY CHARGERS (FIVE INSTALLED
				02	0	AND ONE STORED SPARE) QUALIFIED CLASS
				021	0	1E EQUIPMENT:
				03	0	INPUT - 480 V AC, 3 PHASE, 60 HZ
				04	0	OUTPUT - 125 V DC
				05	0	RATING - 300 AMPS
242.32	AUX GENERATORS					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
242.321	DIESEL GENERATOR UNIT	EDD1	356242321	01	3	FOUR REDUNDANT SKID MOUNTED
				02	0	DIESEL GENERATOR UNITS QUALIFIED AS
				021	0	CLASS 1E EQUIPMENT
				03	0	GENERATOR -
				04	3	NOMINAL RATING - 4 @ 2600 KW
				05	0	NOMINAL VOLTAGE - 4.16 KV
				055	0	POLES - 12
				06	0	POWER FACTOR - 0.8
				065	0	PHASE - 3 PHASE - 3 WIRE
				07	0	CONNECTION - WYE
				08	0	ELECTRIC AUXILIARIES - STATIC
				09	0	EXCITER, VOLTAGE REGULATOR,
				10	0	CONTROL, PROTECTION, AND
				11	0	SURVEILLANCE
				115	0	ENGINE -
				116	0	NO. CYLINDERS
				117	3	3750 KW - 16
				118	3	2750 KW - 12
				119	3	SPEED -
				12	0	MECHANICAL AUXILIARIES -
				13	0	FUEL OIL SYSTEM; LUBE OIL
			356242321A	01	0	SYSTEM; COOLING WATER SYSTEM;
				011	0	AIR INTAKE, EXHAUST AND CRANKCASE
				012	0	VACUUM SYSTEM; STARTING AIR
				02	0	SYSTEM; ELECTRIC GOVERNOR; AND
				03	0	ENGINE CONTROL PANEL
242.322	DIESEL GEN SUBSYSTEMS	EDD				
242.34	INVERTERS					
242.341	NON-CLASS 1E INVERTERS	EDD2	356242341	01	3	FOUR SOLID STATE INVERTERS (ALL SEIS-
				02	3	MICALLY QUALIFIED), RATED AT
				021	0	20 KVA AND EQUIPPED WITH A MANUAL
				03	3	BYPASS SWITCH.
				06	0	INPUT - 250 V DC
				07	0	OUTPUT - 120/240 V A.C., 1 PHASE, 3 WIRE
				071	0	60 HZ.

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
242.342	CLASS 1E INVERTERS	EDD2	356242342	01	3	FOUR SOLID STATE INVERTERS QUALIFIED
				02	0	AS CLASS 1E EQUIPMENT:
				03	0	NOMINAL RATING -
				04	3	2 @ 45 KVA AND 1 @ 15 KVA :
				05	0	INPUT - 125 V D-C AND 120/240
				06	0	V A-C BYPASS
				07	0	OUTPUT - 120/240 V A-C, 1 PHASE
				08	0	3 WIRE, 60 HZ
				09	0	
243.	SWITCHBOARDS					
243.1	CONTROL PANELS					
243.11	GEN+AUX POWER SYS CTRL PNL		35624311	01	0	ONE CONSOLE SECTION CONTAINING SWITCHES
				02	0	AND INDICATING INSTRUMENTS FOR CONTROL
				03	0	OF THE MAIN GENERATOR AND AUXILIARY
				04	0	ELECTRIC POWER SYSTEM - INCLUDED WITH
				05	0	SUB-ACCOUNT 236.11
243.12	CONSOLES					
243.13	VERTICAL PANELS	EEA1	35624313	01	0	TWENTY FEET OF DUAL SWITCHBOARD
				02	0	CONTAINING ANNUNCIATORS AND RECORDING
				03	0	AND INDICATING INSTRUMENTS FOR CONTROL
				04	0	AND DATA ACQUISITION OF THE MAIN GEN-
				05	0	ERATOR AND AUXILIARY ELECTRIC POWER
				06	0	SYSTEM.
243.14	GEN PROTECTIVE RELAY PANEL	EEA2	35624314	01	0	ONE ELECTRIC SYSTEM RELAY PANEL,
				02	0	COMPOSED OF FOUR GENERATOR, ONE UNIT
				021	0	AUXILIARY AND ONE RESERVE AUXILIARY
				022	0	TRANSFORMER SUBPANELS IS PROVIDED.
				03	0	IT CONTAINS ALL OF THE GENERATOR PRO-
				031	0	TECTIVE RELAYS AND THE AUXILIARY TRANS-
				04	0	FORMER PROTECTIVE FUNCTION CONTROL CIR-
				05	0	CUITS, FUSES, AUXILIARY RELAYS AND AUX-
				06	0	ILIARY INSTRUMENT TRANSFORMERS.
243.2	AUX POWER & SIGNAL BOARDS					
243.21	POWER DISTR PANEL					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
243.211	NON-CLASS 1E AC PANELS	EEB1	356243211	01	3	FOUR 120/240 VOLT, 225 A SINGLE PHASE
				02	0	INVERTER PANEL BOARD WITH MOLDED CASE
				03	0	CIRCUIT BREAKERS IN THE INCOMING AND
				04	0	BRANCH CIRCUITS (36 CIRCUITS) AND
				05	0	QUALIFIED AS CLASS 1E.
243.212	CLASS 1E AC PANELS	EEB1	356243212	01	3	FOUR CLASS 1E, 120/240 VOLT, 225 AMP,
				02	0	SINGLE PHASE, 3 WIRE INVERTER PANEL
				03	0	BOARDS WITH MOLDED CASE CIRCUIT BREAKRS
				04	0	IN THE INCOMING AND BRANCH CIRCUITS.
				05	0	(36 CIRCUITS)
243.22	BATTERY CNTRL+ DC DIST PNL					
243.221	NON-CLASS 1E DC PANELS	EEB2	356243221	01	0	ONE 125/250 VOLT D-C, 1000 AMPERE,
				02	0	THREE WIRE METAL ENCLOSED SWITCHGEAR
				03	0	ASSEMBLY WITH MOLDED CASE AIR CIRCUIT
				04	0	BREAKERS IN THE MAINS AND BRANCH
				05	0	CIRCUITS.
243.222	CLASS 1E DC PANELS	EEB2	356243222	01	3	FOUR 125 VOLT D-C,
				011	3	AMPERE METAL ENCLOSED
				02	0	SWITCHGEAR ASSEMBLIES QUALIFIED
				03	0	AS CLASS 1E EQUIPMENT WITH MOLDED CASE
				04	0	CIRCUIT BREAKERS IN THE MAIN AND
				05	0	BRANCH CIRCUITS.
243.223	MISC. PUSHBUTTONS+PNLS+FUSE	EEB3	356243223	01	0	ALLOWANCE
244.	PROTECTIVE EQUIP					
244.1	GEN STATION GROUNDING SYS					
244.11	GROUNDING SYS	EAA	35624411	01	0	A COMPLETE GROUNDING SYSTEM IS PROVIDED
				02	0	FOR EQUIPMENT AND RACEWAYS CONSISTING
				03	0	OF BUILDING GROUND GRID, JUMPERS ACROSS
				04	0	TRAY CONNECTIONS, JUMPERS FROM CONDUIT
				05	0	TO GRID, A BARE COPPER WIRE IN TRAYS,
				06	0	A GROUND BUS MOUNTED IN ALL METAL
				07	0	ENCLOSURES AND PIGTAILS FROM EQUIPMENT
				08	0	FRAMES TO GROUND GRID AND AN INSTRUMENT
				09	0	GROUNDING SYSTEM.

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
244.12	YARD GROUNDING SYS	EAA	35624412	01	0	A COMPLETE YARD GROUNDING SYSTEM IS PROVIDED AS THE PLANT GROUNDING GRID CONSISTING OF SUBGRADE BUILDING GROUND GRIDS AND INTERCONNECTIONS COMPOSED OF BARE COPPER CONDUCTORS, GROUND RODS AND GROUND WELLS.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
244.2	PIPE DETECTN AND SUPPRESSN	MEA1	3562442	01	0	INCLUDED IN ACCOUNT 252.22
244.3	LIGHTNING PROTECTION	EAC	3562443	01	0	LIGHTNING PROTECTION MASTS COMPLETE WITH AIR TERMINALS, BASES AND CONNECTION ARE PROVIDED FOR PROTECTION OF THE CONTAINMENT BUILDING AND LINER. UNDERWRITER LABORATORIES APPROVED LIGHTNING PROTECTION SCHEMES ARE PROVIDED FOR EACH SEISMIC CATEGORY 1 STRUCTURE.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
244.4	CATHODIC PROTECTION	EAB	3562444	01	0	A COMPLETE SYSTEM WITH TRANSFORMERS, RECTIFIER, ANODES, COKE BREEZE BEDS, SPECIAL WIRE AND TERMINATORS.
				02	0	
				03	0	
244.5	HEAT TRCNG + FREEZE PROTEC	EAE	3562445	01	0	A COMPLETE SYSTEM WITH HEAT TRACING WIRE, THERMAL CEMENT, THERMOSTAT CONTROL AND ALARM PANELS AND INTERCONNECTING POWER AND CONTROL WIRE AND RACEWAYS IS PROVIDED FOR DIESEL-GENERATOR UNIT FUEL OIL PIPING AND SELECTED WATER PIPING
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
245.	ELEC STRUC + WIRING CNTNRS					
245.1	UNDERGROUND DUCT BANKS	EFA1	3562451	01	0	POLYVINYL CHLORIDE TYPE DUCTS IN REINFORCED AND UNREINFORCED CONCRETE ENVELOPE WITH 25 MANHOLES
				02	0	
				03	0	
245.11	PVC DUCT	EFA1				
245.12	CONDUIT	EFA2				
245.13	UNDRGRND CONCRETE ENVELOPE	EFA1				
245.131	EXCAVATION WORK	EFA1				
245.132	CONCRETE WORK	EFA1				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
245.1321	FORMWORK	GEA21				
245.1322	REINFORCING STEEL	GEB11				
245.1323	CONCRETE	GEC21				
245.2	CABLE TRAY	EFBX	3562452	01	0	A COMPLETE CABLE TRAY RACEWAY SYSTEM IS
				02	0	PROVIDED COMPRISING LADDER TYPE TRAY
				03	0	FOR POWER AND CONTROL CABLES AND
				04	0	LADDER TRAY WITH SOLID COVERS AND
				05	0	BOTTOM PLATES FOR LOW-SIGNAL-LEVEL
				06	0	CABLES.
				07	0	ALL TRAYS AND FITTINGS AND ALL HANGERS
				08	0	AND SUPPORTS ARE HOT-DIPPED GALVANIZED
				09	0	AFTER FABRICATION:
				10	0	SIZE - 24 IN.
				11	0	QUANTITY - 60,000 FT
245.3	CONDUIT	EFC1	3562453	01	0	A COMPLETE CONDUIT RACEWAY SYSTEM IS
				02	0	PROVIDED:
				03	0	TYPES - GALVANIZED RIGID STEEL, AND
				04	0	FLEXIBLE STEEL, INCLUDING
				05	0	PULLBOXES, FITTINGS AND
				06	0	HANGERS.
				07	0	LENGTH IN FEET - 33000
246.	POWER & CONTROL WIRING					
246.1	GEN CIRCUIT WIRING					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
246.11	MAIN GEN BUS DUCT	EGG4	35624611	01	0	ISOLATED PHASE BUS DUCT:
				02	0	NOMINAL/MAX VOLTAGE - 26/27.3 KV
				03	0	BIL - 150 KV
				04	0	CONTINUOUS CURRENT:
				05	0	MAIN BUS - 36,000 A
				06	0	SPLIT TO GSU S 22,000 A
				07	0	TAP TO UAT - 2,000
				08	0	SHORT CIRCUIT CURRENT:(SYMMETRICAL)
				09	0	MAIN BUS - 175 KA
				10	0	TAP TO PT'S - 275 KA
				11	0	TAP TO UAT - 265 KA
				12	0	COOLING:
				13	0	MAIN BUS - FORCED COOLED
				14	0	SPLIT TO GSU'S - FORCED COOLED
				15	0	TAP TO UAT - SELF COOLED
				16	0	TEMPERATURE RISE - 65 C
				17	0	LENGTH IN 3 PHASE FEET:(INCL. ELBOW EQUIV)
				18	0	
				19	0	MAIN BUS - 250
				20	0	SPLIT TO GSU S - 85
				21	0	TAP TO UAT - 100
246.12	DG UNIT BUS DUCT					
246.2	STA SERVICE POWER WIRING					
246.21	HIGH VOLT CABLE & BUS					
246.211	BUS DUCT					
246.212	CABLE					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
246.2121	5 KV CABLE	EGB1	3562462121	01	0	VOLTAGE - 5 KV
				02	0	TYPE - SINGLE CONDUCTOR WITH STRAND
				03	0	SHEILD, PRIMARY INSULATION, INSULATION
				04	0	SHEILD, SHEILD AND OUTER JACKET, TRIP-
				05	0	LEXED FOR 3 CONDUCTOR CONFIGURATION,
				06	0	QUALIFIED AS CLASS 1E CABLE
				061	0	CONDUCTOR - COATED ANNEALED COPPER,
				062	0	CLASS "B" STRANDED PER ASTM B-8
				07	0	CONDUCTOR TEMPERATURE - 90 C
				08	0	INSULATION -
				09	0	PRIMARY - ETHYLENE-PROPYLENE RUBBER
				10	0	JACKET - HYPALON
				11	0	CABLE SIZE AND LENGTH IN 3 CONDUCTOR
				12	0	(TRIPLEXED) FEET -
				13	0	# 4/0 AWG - 15,100
				15	0	500 KCMIL 22,700
				16	0	750 KCMIL 7,200
246.22	LOW VOLTAGE CABLE & BUS					
246.221	BUS DUCT		EGG4			
246.222	CABLE					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
246.2221	LOW VOLTAGE POWER CABLE	EGC1	3562462221	01	0	VOLTAGE = 600 VOLTS
				02	0	TYPE - SINGLE OR MULTIPLE CONDUCTOR
				03	0	WITH PRIMARY INSULATION AND OUTER
				04	0	JACKET, CONFIGURATION AS NOTED BELOW,
				05	0	QUALIFIED CLASS 1E
				051	0	CONDUCTOR - COATED ANNEALED COPPER,
				052	0	CLASS "B" STRANDED PER ASTM B-8.
				06	0	CONDUCTOR TEMPERATURE - 90 C
				07	0	INSULATION -
				08	0	PRIMARY - ETHYLENE-PROPYLENE RUBBER
				09	0	JACKET - HYPALON
				10	0	CABLE SIZE AND LENGTH
				11	0	SINGLE CONDUCTOR CABLE (1/C FEET):
				111	0	500 KCMIL - 1500
				112	0	TWO CONDUCTOR CABLE (2/C FEET):
				113	0	#10 AWG - 31,000
				114	0	# 6 AWG - 1,500
				115	0	# 2 AWG - 2,000
				116	0	#1/0 AWG - 4,000
				12	0	THREE CONDUCTOR CABLE (3/C FEET):
				13	0	# 12 AWG - 111,000
				14	0	# 10 AWG - 180,000
			3562462221A	01	0	# 6 AWG - 40,000
				02	0	# 2 AWG - 9,000
				03	0	#1/0 AWG - 17,000
				04	0	THREE CONDUCTOR TRIPLEXED IN FACTORY
				05	0	(3/C FEET):
				06	0	#4/0 AWG - 9,000
				07	0	250 KCMIL - 9,000
				08	0	350 KCMIL - 5,000
				09	0	500 KCMIL - 6,000
				10	0	FOUR CONDUCTOR CABLE (4/C FEET):
				11	0	# 8 AWG - 17,000

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
246.3	CONTROL CABLE	EGD1	3562463	01	0	VOLTAGE - 1000 V
				02	0	TYPE- INDIVIDUALLY INSULATED CONDUCTORS
				03	0	CABLED TOGETHER WITH FILLERS AND
				04	0	BINDER, AN OVERALL TAPE SHIELD AND AN
				05	0	OVERALL JACKET, QUALIFIED AS CLASS 1E
				06	0	CONDUCTOR - COATED, ANNEALED COPPER
				07	0	CLASS "C" STRANDED PER ASTM B-8
				09	0	CONDUCTOR TEMPERATURE - 90 C
				10	0	INSULATION -
				11	0	PRIMARY - ETHYLENE-PROPYLENE RUBBER
				12	0	JACKET - HYPALON
				121	0	CONDUCTOR SIZE - #12 AWG
				13	0	CABLE CONFIGURATION AND LENGTH IN FEET
				14	3	2/C - 600,000
				15	3	3/C - 150,000
				16	3	5/C - 450,000
				17	3	7/C -
				18	3	12/C - 170,000
246.4	INSTRUMENT WIRE	EGE1	3562464	01	3	LENGTH IN FEET - 2.5 E06 FT.
246.5	CONTAINMENT PENETRATIONS	EGF1	3562465	01	0	CLASS 1E CONTAINMENT PENETRATION:
				02	3	QUANTITY - 85
25 .	MISC. PLANT EQUIP					
251.	TRANSPORTATION+LIFT EQUIP					
251.1	CRANES+HOISTS					
251.11	TURB BLDG CRANES					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
251.111	TG OVERHEAD TRAVELING CRAN	GHB2	356251111	01	0	QUANTITY - 1
				02	0	TYPE - OVERHEAD TRAVELLING BRIDGE
				03	0	CAPACITY:
				04	0	MAIN HOIST - 200 TONS
				05	0	AUX. HOIST - 30 TONS
				06	3	BRIDGE SPAN- FT RAIL TO RAIL
				07	0	HOOK TRAVEL:
				08	0	MAIN HOIST - 95 FT
				09	0	AUX. HOIST - 100 FT
				10	0	MAX. SPEEDS:
				11	0	BRIDGE - 50 FPM
				12	0	TROLLEY - 50 FPM
				13	0	MAIN HOIST - 5 FPM
				14	0	AUX. HOIST - 25 FPM
251.112	HEATER BAY CRANE		356251112	01	0	NONE
251.12	REACTOR CONT BLDG CRANE	GHB1	35625112	01	0	QUANTITY - 1
				02	0	TYPE - OVERHEAD POLAR
				03	0	CAPACITY:
				04	0	MAIN HOIST - 100 TON
				05	0	AUX. HOIST - 25 TON
				06	3	BRIDGE SPAN- FT DIA CIRCULAR RUNWAY
				07	0	HOOK TRAVEL:
				08	0	MAIN HOIST - 62 FT
				09	0	AUX. HOIST - 160 FT
				10	0	MAX. SPEEDS:
				11	0	BRIDGE - 40 FPM
				12	0	TROLLEY - 30 FPM
				13	0	MAIN HOIST - 5 FPM
				14	0	AUX. HOIST - 25 FPM
				15	0	
				16	0	
				17	0	INCLUDES: INCHING DRIVES ON BRIDGE,
				18	0	TROLLEY AND MAIN HOIST, AND SPECIAL
				19	0	LOAD BLOCK FOR FUEL HANDLING EQUIPMNT
				20	0	FULLY REDUNDANT MAIN HOIST IS QUALIFIED
				21	0	TO RETAIN LOAD DURING SSE.

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
251.13	REACTOR SERVICE BLDG CRANE	GHB2	35625113	01	0	QUANTITY = 1
				02	0	TYPE - OVERHEAD TRAVELING BRIDGE
				03	0	CAPACITY:
				04	0	MAIN HOIST - 100 TON
				05	0	AUX. HOIST - 25 TON
				06	3	BRIDGE SPAN - FT
				07	0	HOOK TRAVEL:
				08	0	MAIN HOIST - 160 FT
				09	0	AUX. HOIST - 160 FT
				11	0	MAX. SPEEDS:
				12	0	BRIDGE 40 FPM
				13	0	TROLLEY 30 FPM
				14	0	MAIN HOIST 5 FPM
				15	0	AUX. HOIST - 25 FPM
				16	0	
				17	0	INCLUDES: INCHING DRIVES ON BRIDGE,
				18	0	TROLLEY AND MAIN HOIST, AND SPECIAL
				19	0	LOAD BLOCK FOR FUEL HANDLING EQUIPMT
				20	0	NON-REDUNDANT MAIN HOIST IS DESIGNED TO
				21	0	REMAIN INTACT DURING SSE IN AN
				22	0	UNLOADED CONDITION.
251.14	INTAKE STRUCTURE CRANE	GHB2	35625114	01	0	NONE
251.15	CIRC WATER PUMPHOUSE CRANE	GHB2	35625115	01	0	NONE
251.16	MISC. CRANES, HOISTS + MONORAIL	GHB				
251.161	10 TON CRANES	GHBX				
251.162	5 TON CRANES	GHBX	356251162	01	0	QUANTITY = 10
				02	0	TYPE - MONORAIL
				03	0	CAPACITY - 5 TONS
				04	0	LIFT - 30 FT.
				05	0	INDUSTRY STANDARD SPEEDS, SINGLE SPEED
				06	0	PENDANT CONTROL
				07	0	
			356251162A	01	0	QUANTITY = 1
				02	0	TYPE - OVERHEAD BRIDGE CRANE
				03	0	CAPACITY - 5 TON
				04	0	LIFT - 25 FT
				05	0	INDUSTRY STANDARD 5 STEP
				06	0	PENDANT CONTROL

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
251.163	RCB EQUIPMT HATCH MONORAIL	GHB3	356251163	01	0	QUANTITY - 1
				02	0	TYPE - MONORAIL
				03	0	CAPACITY - 40 TONS
				04	0	LIFT - 25 FT
				041	0	
				05	0	INDUSTRY STANDARD THREE STEP PENDANT
				06	0	SPEED CONTROL
251.164	RAILCAR ACCESS BARRIER CRNE	GHB1	356251164	01	0	QUANTITY - 1
				02	0	TYPE - MOBILE GANTRY
				03	0	CAPACITY - 15 TON
				04	0	SPAN - 20-40 FT
				05	0	HEIGHT - 30 FT
251.17	DIESEL BUILDING CRANES	GHB2	35625117	01	3	QUANTITY - 4
				02	0	TYPE - OVERHEAD TRAVELING BRIDGE
				03	0	CAPACITY - 5 TON
				04	0	SPAN - 24 FT
252.	AIR WTR+STEAM SERV SYS					
252.1	AIR SYSTEMS					
252.11	COMPRESSED AIR SYS					
252.111	ROTATING MACHINERY					
252.1111	AIR COMPRESSORS	MFD1	3562521111	01	0	QUANTITY - 2 x 100 PCT
				02	0	TYPE - RECIPROCATING, OIL-FREE
				03	0	STAGES - 2
				04	0	ORIENTATION - VERTICAL
				05	0	CAPACITY - 650 CFM @ 100 PSIG
				06	0	SPEED - 475 RPM
				07	3	COOLING FLOW - 12 GPM @ 30 F RISE
				08	0	INTAKE FILTER - DRY TYPE
				09	0	AFTER COOLER:
				10	0	TYPE - SHELL AND TUBE
				11	0	SURF. AREA -
				12	0	COOLING FLOW - 18 GPM @ 30 F RISE
				13	0	DESIGN PRESS - 150 PSIG
				14	0	DESIGN TEMP -
				15	0	SAFETY CLASS - NNS
				16	0	SEISMIC CAT - NONE
				17	0	DESIGN CODE -

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
252.1112	MOTORS	EHXX	3562521112	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 125 HP
				04	0	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
252.113	TANKS+PRESS VESSELS					
252.1131	RECEIVERS	MFC1	3562521131	01	0	QUANTITY - 1 x 100 PCT
				02	0	ORIENTATION - VERTICAL
				03	3	DIMENSIONS - 5 FT DIA X 16 FT STRAIGHT
				04	3	VOLUME - 314 CU FT
				05	0	DESIGN PRESS - 125 PSIG
				06	0	DESIGN TEMP - 125 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - ASME SEC. VIII
252.1132	AIR DRYERS	MFBS	3562521132	01	0	QUANTITY - 2 x 100 PCT
				02	0	TYPE - DUPLEX-DESICANT
				03	0	HORSEPOWER -
				04	0	VOLTAGE -
				05	0	FLOW RATE - 650 CFM @
				06	0	AIR PRESS - 100 PSIG
				07	0	DESIGN PRESS - 125 PSIG
				08	0	DESIGN TEMP - 125 F
				09	0	TEMP IN/OUT - 125 F/-40 F DEWPOINT
				10	0	COOLING FLOW -
				11	0	SAFETY CLASS - NNS
				12	0	SEISMIC CAT - NONE
252.115	PIPING					
252.1151	2IN+SMALLER					
252.11511	CS/NNS	MBC1				
252.1152	2.5IN+LARGER					
252.11521	CS/NNS	MBD1				
252.116	VALVES	MCA				
252.117	PIPING-MISC ITEMS					

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EQUIPMENT LIST - REPORT 2

MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR

- COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.1171	HANGERS&SUPPORTS	MAA				
252.1172	INSULATION	MHA2				
252.1173	SPECIALTIES	MAB3				
252.118	I+C	MID				
252.12	CONTAIN BLDG INST AIR SYS					
252.123	TANKS+PRESSURE VESSELS					
252.1231	RECEIVERS INSIDE CONTNMNT	MFC1	3562521231	01	0	QUANTITY - 3 X 33 PCT
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 3FT X 6FT STRAIGHT
				04	0	VOLUME - 50 CU FT
				05	0	DESIGN PRESS - 125 PSIG
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - 3
				09	0	SEISMIC CAT. - I
				10	0	DESIGN CODE - ASME SEC III
252.125	PIPING					
252.1251	2 IN + SMALLER					
252.12511	CS/SC 3	MBA1				
252.1252	2.5 IN + LARGER					
252.12521	CS/SC 3	MBB1				
252.126	VALVES	MCA				
252.127	PIPING-MISC ITEMS					
252.1271	HANGERS AND SUPPORTS	MAA				
252.1272	INSULATION	MHA2				
252.1273	SPECIALTIES	MAB3				
252.12731	CONTAINMENT PENETRATIONS	MAB1				

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MODEL 356 - 0000 MWE73000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.2	WATER SYSTEMS					
252.21	SERVICE WATER SYSTEM		35625221	01	0	THREE 50 PCT. CAPACITY SERVICE WATER PUMPS, SIZED FOR NORMAL PLANT OPERATION TO DELIVER THE REQUIRED COOLING WATER FLOW FROM THE MAIN COOLING TOWER CIRCULATING WATER BASINS TO VARIOUS STATION EQUIPMENT.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
252.211	ROTATING MACHINERY					
252.2111	SERVICE WATER PUMP + MOTOR	MFA1				
252.21111	SERVICE WATER PUMP	MFA2	35625221111	01	0	QUANTITY - 3 X 50 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 20,000 GPM
				05	0	SPEED - 1,160 RPM
				06	0	TDH - 130 FT
				07	0	BHP - 875 HP
				08	0	NPSH - 10 FT
				09	0	EFFICIENCY - 75 PCT
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CAST IRON CASE, S.S. IMPELLER
				121	0	
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
252.21112	SERVICE WATER PUMP MOTOR	EHXX	35625221112	01	0	QUANTITY - 3
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 1,000 HP
				04	0	SPEED - 1,200 RPM
				05	0	VOLTAGE - 4,000 V 3 PHASE, 60 HZ
252.215	PIPING					
252.2151	2 IN AND SMALLER					
252.21511	CS/NNS	MBC1				
252.2152	2.5 IN AND LARGER					
252.21521	CS/NNS	MBD1				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.21522	CONCRETE/NNS	MBD6				
252.216	VALVES	MCA				
252.217	PIPING, MISC ITEMS					
252.2171	HANGERS AND SUPPORTS	MAA				
252.2172	INSULATION	MHA2				
252.2173	SPECIALTIES	MAB3				
252.218	I+C	MID				
252.22	YARD FIRE PROTECTION SYS		35625222	01	3	THE PLANT FIRE PROTECTION SYSTEM
				02	3	CONSISTS OF TWO WATER
				03	0	STORAGE TANKS, TWO DIESEL DRIVEN AND
				04	0	TWO ELECTRIC DRIVEN FIRE PUMPS, A YARD
				05	0	LOOP PIPE SYSTEM, HYDRANTS, BUILDING
				06	0	STANDPIPE SYSTEMS, EQUIPMENT DELUGE AND
				07	0	SPRINKLER SYSTEMS. IN ADDITION, FIRE
				08	0	DETECTION AND ALARM SYSTEMS, TOGETHER
				09	0	WITH PORTABLE DRY CHEMICAL, CO2 AND
				10	0	HALON EXTINGUISHERS ARE LOCATED
				11	0	THROUGHOUT THE PLANT AS REQUIRED.
252.221	ROTATING MACHINERY					
252.2211	DIES. ENG. FIRE PUMP+MOTOR	MEB				

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MODEL 356 - 0000 MWE/3000 MW. HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.22111	DIESEL ENGINE FIRE PUMP	MFA2	35625222111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE -
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 2000 GPM
				05	0	SPEED -
				06	0	TDH - 125 PSI
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS -
				11	0	DESIGN TEMP -
				12	0	MATERIAL -
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
				16	0	COMPLETE WITH ALL ACCESSORIES AND
				17	0	CONTROLS.
252.22112	DIESEL ENGINE FIRE PMP MTR	EHXX				
252.2212	MOTOR DRIVEN FIRE PUMP+MTR	MEB	3562522212	01	0	QUANTITY - 2
				02	0	TYPE - DC CONTROL
				03	0	HORSEPOWER - 250 HP
				04	0	SPEED -
				05	0	VOLTAGE -
252.22121	MOTOR DRIVEN FIRE PUMPS	MFA2	35625222121	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE -
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 2000 GPM
				05	0	SPEED -
				06	0	TDH - 125 PSI
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS -
				11	0	DESIGN TEMP -
				12	0	MATERIAL -
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
				16	0	COMPLETE WITH ALL ACCESSORIES AND
				17	0	CONTROLS.

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR

- COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.22122	MOTOR DRIVEN FIRE PUMP MTR	EHXX	35625222122	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 250 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460 V 3 PHASE, 60 HZ
252.2213	JOCKEY PUMP + MOTOR	MFA1				
252.22131	JOCKEY PUMP	MFA2	35625222131	01	0	QUANTITY - 1 X 100 PCT
				02	0	TYPE -
				03	0	ORIENTATION -
				04	0	FLOW RATE - 50 GPM
				05	0	SPEED -
				06	0	TDH - 135 PSI
				07	0	BHP -
				08	0	NPSH -
				09	0	EFFICIENCY -
				10	0	DESIGN PRESS -
				11	0	DESIGN TEMP -
				12	0	MATERIAL -
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
252.22132	JOCKEY PUMP MOTOR	EHXX	35625222132	01	0	QUANTITY - 1
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 15 HP
				04	0	SPEED -
				05	0	VOLTAGE - 460V, 3 PHASE, 60HZ
252.2214	HOT WATER CIRC PUMP+MOTOR	MFA1				

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MODEL 356 - 0000 MWE/3000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
252.22141	HOT WATER CIRC PUMP	MFA2	35625222141	01	0	QUANTITY -	2 X 100 PCT
				02	0	TYPE -	CENTRIFUGAL
				03	0	ORIENTATION -	
				04	0	FLOW RATE -	75 GPM
				05	0	SPEED -	
				06	0	TDH -	70 FT
				07	0	BHP -	
				08	0	NPSH -	
				09	0	EFFICIENCY -	
				10	0	DESIGN PRESS -	
				11	0	DESIGN TEMP -	210 F
				12	0	MATERIAL -	
				13	3	SAFETY CLASS -	NNS
				14	3	SEISMIC CAT. -	NONE
				15	3	DESIGN CODE -	COMMERICAL
252.22142	HOT WATER CIRC PUMP MOTOR	EHXX	35625222142	01	0	QUANTITY -	2
				02	0	TYPE -	AC INDUCTION
				03	0	HORSEPOWER -	5 HP
				04	0	SPEED -	
				05	0	VOLTAGE -	460V, 3 PHASE, 60 HZ
252.222	HEAT TRANSFER EQUIPMENT						

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.2221	HOT WATER HEAT EXCHANGER	MFB2	3562522221	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - SHELL AND TUBE
				03	0	ORIENTATION -
				04	0	HEAT LOAD - 1.1 E+06 BTU/HR
				05	0	SURFACE AREA -
				06	0	SHELL CONDITION: (HOT WATER SIDE)
				07	0	DES. PRESS/TEMP -
				08	0	TEMP IN/OUT - 180 F / 210 F
				09	0	FLOW RATE - 75 GPM
				10	0	MATERIAL -
				11	0	SAFETY CLASS - NNS
				12	3	DESIGN CODE - ASME VIII, TEMA
				13	0	TUBE CONDITION: (STEAM SIDE)
				14	0	QUANTITY -
				15	0	SIZE -
				16	0	DES. PRESS/TEMP -
				17	0	TEMP IN/OUT -
				18	0	FLOW RATE - 1200 LB/HR @ 50 PSIG
				19	0	MATERIAL -
				20	0	SAFETY CLASS - NNS
				21	3	DESIGN CODE - ASME VIII, TEMA
				22	0	SEISMIC CAT. - NONE
252.223	TANKS AND PRESSURE VESSELS					
252.2231	FIRE WATER STORAGE TANK	MFC3	3562522231	01	0	QUANTITY - 2
				02	0	ORIENTATION -
				03	0	DIMENSIONS -
				04	0	VOLUME - 300,000 GAL
				05	0	DESIGN PRESS - ATM.
				06	0	DESIGN TEMP -
				07	0	MATERIAL - STEEL
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	3	DESIGN CODE - AWWA
252.2232	DIESEL ENGINE FUEL OIL TK	MFC3				
252.225	PIPING		356252225	01	0	UNDERGROUND PIPING - CARBON STEEL,
				02	0	CEMENT LINED, COATED AND WRAPPED
				03	0	
				04	0	ABOVE GROUND PIPING - CARBON STEEL,
				05	0	CEMENT LINED
252.2251	2 IN AND SMALLER					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.22511	CS/NNS	MBC1				
252.2252	2.5 AND LARGER					
252.22521	CS/NNS	MBD1	35625222521	01	0	UNDERGROUND PIPE - CARBON STEEL, CEMENT-LINED, COATED AND WRAPPED. ABOVE GROUND PIPE - CARBON STEEL, CEMENT-LINED.
				02	0	
				03	0	
				04	0	
252.226	VALVES					
252.2261	STANDARD VALVES	MCA				
252.22611	GATE	MCA1				
252.22612	CHECK	MCA2				
252.22613	GLOBE	MCA3				
252.22615	RELIEF	MCA5				
252.22619	SPECIAL VALVES					
252.226191	TEMP REGULATING	MCA9				
252.2262	E-RATED VALVES	MCAx				
252.22621	GATE	MCA1				
252.22622	CHECK	MCA2				
252.22623	GLOBE	MCA3				
252.22624	DIAPHRAGM	MCA4				
252.22625	RELIEF	MCA5				
252.22629	SPECIAL VALVES					
252.226291	POST INDICATOR GATE	MCA9				
252.226292	DELUGE	MCA9				
252.227	PIPING, MISC ITEMS					

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EQUIPMENT LIST - REPORT 2

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.2271	HANGERS AND SUPPORTS	MAA				
252.2272	INSULATION	MMA1				
252.2273	SPECIALTIES					
252.22731	HOSE HOUSES	MEB3	35625222731	01	0	QUANTITY = 27
252.22732	FIRE HYDRANTS	MEB5	35625222732	01	0	QUANTITY = 27
252.22733	CONTAINMENT SPRINKLERS	MEA1				
252.22734	EMERG DG BLDG PREACT SPRK	MEA1				
252.22735	EMERG DG FUEL STOR AREA SP	MEA1				
252.22736	FIRE HOSE CABINETS	MEB2				
252.22737	TURBINE + HEATER BAY SPRKS	MEA1				
252.22738	TURBINE LUBE OIL DEL SPRK	MEA1				
252.22739	TRANSFORMER DELUGE SPRK	MEA1				
252.22741	ADMINISTRATION BLDG SPRK	MEA1				
252.22742	Q.A. STORAGE HALON 1301	MEB				
252.228	I + C	MID				
252.24	POTABLE WATER SYSTEM					
252.245	PIPING					
252.2451	2 IN AND SMALLER					
252.24511	CU/NNS	MBC4				
252.2452	2.5 IN AND LARGER					
252.24521	GALV/NNS	MBD3				
252.246	VALVES	MCA				
252.2461	GATE	MCA1				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.2462	CHECK	MCA2				
252.2463	GLOBE	MCA3				
252.2465	SAFETY/RELIEF	MCA5				
252.2469	SPECIAL VALVES					
252.24691	SAFETY SHOWER	MCA9				
252.24692	EYE WASH	MCA9				
252.24693	HOSE BIBBS	MCA9				
252.248	INSTRUMENTATION+CONTROL	MID				
252.3	AUX STEAM SYSTEM		3562523	01	3	ONE 100 PCT AUXILIARY BOILER SYSTEM
				02	3	SIZED TO START UP UNIT WHILE SUPPLYING
				03	3	HEATING STEAM.
252.31	AUX BOILER SYSTEM					
252.312	HEAT TRANSFER EQUIPMENT					
252.3121	AUX BOILERS	MFE4	3562523121	01	3	QUANTITY - 1 X 100 PCT
				02	0	TYPE - FACTORY ASSEMBLED
				03	0	RATING - 225,000 LB/HR
				04	0	AT 200 PSIG & 600 F
				05	0	HEAT RELEASED - 125,000 BTU/HR/CU FT
				06	0	HEAT ABSORBED - 195,000 BTU/HR/SQ FT
				07	0	FURNACE SURF.
				08	0	HEATING SURF.
				09	0	DESIGN PRESS.
				10	0	DESIGN TEMP.
				11	0	FUEL BURNED - NO. 2 FUEL OIL
				12	0	SAFETY CLASS - NNS
				13	0	SEISMIC CAT. - NONE
				14	0	DESIGN CODE - ASME I

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.3122	AUX BOILER SYS REBOILER	MFE4	3562523122	01	0	QUANTITY = 1
				02	0	TYPE - HORIZONTAL
				03	0	RATING - 50,000 LB/HR
				04	0	HEAT LOAD - 4.7 E+06 BTU/HR
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 250 F
				07	0	SAFETY CLASS - NNS
				08	0	SEISMIC CAT. - NONE
				09	0	DESIGN CODE - ASME I
252.315	PIPING					
252.3151	2 IN AND SMALLER					
252.31511	CS/NNS		MBC1			
252.3152	2.5 IN AND LARGER					
252.31521	CS/NNS		MDD1			
252.316	VALVES		MCA			
252.317	PIPING, MISC ITEMS					
252.3171	HANGERS AND SUPPORTS		MAA			
252.3172	INSULATION		MHA2			
252.3173	SPECIALTIES		MAB3			
252.32	AUX BOILER FEEDWATER SYS					
252.321	ROTATING MACHINERY					
252.3211	AUX FW PUMPS & MOTORS		MFA1			

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.32111	AUX FW PUMP	MFA2	35625232111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	DES.FLOW RATE - 500 GPM
				05	0	SPEED - 3500 RPM
				06	0	TDH - 660 FT
				07	0	BHP - 96 HP
				08	0	NPSH(AVAILABLE) - 25 FT
				09	0	EFFICIENCY - 83 PCT
				10	0	DESIGN PRESS - 500 PSIG
				11	0	DESIGN TEMP - 300 F
				12	0	MATERIAL - CS CASING, CHROME STEEL
				121	0	INTERNALS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
252.32112	AUX PUMP MOTOR	EHXX	35625232112	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 100 HP
				04	0	SPEED - 3600 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
252.325	PIPING	MBXX				
252.3251	2 IN. AND SMALLER					
252.32511	CS/NNS	MBC1				
252.3252	2.5 IN. AND LARGER					
252.32521	CS/NNS	MBD1				
252.326	VALVES	MCA				
252.3261	GATE	MCA1				
252.3262	CHECK	MCA2				
252.327	PIPING, MISC ITEMS					
252.3271	HANGERS AND SUPPORTS	MAA				
252.3272	INSULATION	MHA2				

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EQUIPMENT LIST - REPORT 2

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.3273	SPECIALTIES	MAB3				
252.33	AUX. FUEL OIL SYSTEM					
252.331	ROTATING MACHINERY					
252.3311	FUEL OIL PUMPS&MOTORS	MFA1				
252.33111	FUEL OIL PUMP	MFA2	35625233111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - POSITIVE DISPLACEMENT
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 40 GPM
				05	0	SPEED - 1740 RPM
				06	0	TDH - 300 FT
				07	0	BHP - 5 HP
				09	0	EFFICIENCY - 55 PCT
				10	0	DESIGN PRESS - 150 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
252.33112	FUEL OIL PUMP MOTOR	EHXX	35625233112	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 7.5 HP
				04	0	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
252.335	PIPING					
252.3351	2 INCH AND SMALLER					
252.33511	CS/NNS	MBC1				
252.3352	2.5 INCH AND LARGER					
252.33521	CS/NNS	MBD1				
252.336	VALVES	MCA				
252.3361	GATE	MCA1				
252.3362	CHECK	MCA2				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.3363	GLOBE	MCA3				
252.3365	RELIEF	MCA5				
252.337	PIPING, MISC ITEMS					
252.3371	HANGERS AND SUPPORTS	MAA				
252.3372	INSULATION	MHA2				
252.3373	SPECIALTIES	MAB3				
252.34	AUX DEAER AND MAKEUP SYS					
252.341	ROTATING MACHINERY					
252.3411	TRANSFER PUMP & MOTOR	MFA1				
252.34111	TRANSFER PUMP	MFA2	35625234111	01	0	QUANTITY - 2
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 250 GPM
				05	0	SPEED - 1740 RPM
				06	0	TDH - 100 FT
				07	0	BHP - 8.4 HP
				08	0	NPSH - 10 FT
				09	0	EFFICIENCY - 75 PCT
				10	0	DESIGN PRESS - 50 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - SS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
252.34112	TRANSFER PUMP MOTOR	EHXX	35625234112	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 10 HP
				04	0	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
252.343	TANKS AND PRESSURE VESSELS					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
252.3431	DEAERATOR	MFB7	3562523431	01	0	QUANTITY =	1
				02	0	TYPE =	TRAY
				03	0	CAPACITY =	225,000 LB/HR
				04	0	STG. TANK CAP'Y =	35,000 LBS
				05	0	OPER. PRESS =	5 PSIG
				06	0	DES. PRESS =	20 PSIG
				07	0	STM. INLET TEMP =	400/600 F
				08	0	WATER INLET TEMP =	100 F
				09	0	FINAL WATER TEMP =	230 F
				10	0	MATERIAL =	CS, SS INTERNALS
				11	0	SAFETY CLASS =	NNS
				12	0	SEISMIC CAT =	NONE
				13	0	DESIGN CODE =	ASME VIII
252.345	PIPING	MBXX					
252.3451	2 IN + SMALLER	MBCX					
252.3452	2.5 IN AND LARGER						
252.34521	CS/NNS	MBD1					
252.346	VALVES	MCA					
252.3461	GATE	MCA1					
252.3462	CHECK	MCA2					
252.347	PIPING-MISC ITEMS						
252.3471	HANGERS AND SUPPORTS	MAA					
252.3472	INSULATION	MHA2					
252.3473	SPECIALTIES	MAB3					
252.35	AUX CHEM FEED SYSTEM						
252.351	ROTATING MACHINERY						
252.3511	CHEM FEED PUMPS&MOTORS	MFA1					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.35111	CHEM FEED PUMP	MFAZ	35625235111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - HYDRAULICALLY ACTUATED
				021	0	DIAPHRAGM
				03	0	ORIENTATION - VERTICAL
				04	0	FLOW RATE - 5 GAL/HR
				05	0	SPEED - 1800 RPM
				06	3	TDH - 750 FT
				08	0	NPSH - 10 FT
				10	3	DESIGN PRESS - 500 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - SS
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL
252.35112	CHEM FEED PUMP MOTOR	EHXX	35625235112	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	3	HORSEPOWER - 1/2 HP
				04	0	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
252.353	TANKS AND PRESSURE VESSELS					
252.3531	CHEM FEED TANKS	MFC1	3562523531	01	0	THE FACTORY COST FOR THIS TANK IS
				011	0	INCLUDED IN THE PRICE OF THE CHEMICAL
				012	0	FEED PUMPS, ACCOUNT NO. 252.3511
				013	0	
				014	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 2 FT DIA X 2 FT STRAIGHT
				04	0	VOLUME - 20 GAL
				05	0	DESIGN PRESS - ATMOS.
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - SS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	3	DESIGN CODE - ASME VIII
				11	0	AGITATOR:
				12	0	MATERIAL - S.S.
				13	0	MOTOR HP - 1/12 HP
252.355	PIPING	MBXX				
252.3551	2 IN AND SMALLER					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.35511	SS/NNS	MBC2				
252.3552	2.5 IN + LARGER	MBDX				
252.356	VALVES	MCA				
252.3561	GATE	MCA1				
252.3562	CHECK	MCA2				
252.357	PIPING, MISC ITEMS					
252.3571	HANGERS AND SUPPORTS	MAA				
252.3572	INSULATION	MHA2				
252.3573	SPECIALTIES	MAB3				
252.36	AUX CONDENSATE RETURN SYS					
252.361	ROTATING MACHINERY					
252.3611	AUX CONDENSATE PUMP+MOTOR	MFA1				
252.36111	AUX CONDENSATE PUMP	MFA2	35625236111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 300 GPM
				05	0	SPEED - 1740 RPM
				06	0	TDH - 150 FT
				07	0	BHP - 18 HP
				08	0	NPSH - 19 FT
				09	0	EFFICIENCY - 60 PCT
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CAST IRON CASINGS,
				121	0	CHROME STEEL IMPELLER
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	3	DESIGN CODE - COMMERCIAL

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01779

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.36112	AUX CONDENSATE PUMP MOTOR	EHXX	35625236112	01	0	QUANTITY = 2
				02	0	TYPE = S.C.I.M.
				03	0	HORSEPOWER = 25 HP
				04	0	SPEED = 1800 RPM
				05	0	VOLTAGE = 460 V, 3 PHASE, 60 HZ
252.363	TANKS AND PRESSURE VESSELS					
252.3631	CONDENSATE RECEIVER	MFC1	3562523631	01	0	QUANTITY = 1
				02	0	ORIENTATION = VERTICAL
				03	0	DIMENSIONS = 6 FT OD X 6 FT STR. SIDE
				04	0	VOLUME = 196 CU FT
				05	0	DESIGN PRESS = 15 PSIG
				06	0	DESIGN TEMP = 250 F
				07	0	MATERIAL = CARBON STEEL
				08	0	SAFETY CLASS = NNS
				09	0	SEISMIC CAT. = NONE
				10	0	DESIGN CODE = ASME VIII
252.365	PIPING	MBXX				
252.3651	2 IN AND SMALLER					
252.36511	CS/NNS	MBC1				
252.3652	2.5 IN AND LARGER					
252.36521	CS/NNS	MBD1				
252.366	VALVES	MCA				
252.3661	GATE	MCA1				
252.3662	CHECK	MCA2				
252.3663	GLOBE	MCA3				
252.367	PIPING, MISC ITEMS					
252.3671	HANGERS AND SUPPORT	MAA				
252.3672	INSULATION	MHA2				
252.3673	SPECIALTIES	MAB3				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
				123456789012345678901234567890123456789		
252.37	AUX BOILER STACKS AND DUCT	MFN3				
252.38	AUX BOILER BLOWDOWN					
252.383	TANKS AND PRESSURE VESSELS					
252.3831	AUX BOILER BLOWDN TANK	MFC1	3562523831	01	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 6 FT OD X 6 FT STR SIDE
				04	0	VOLUME - 196 CU FT
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 250 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - ASME VIII
252.385	PIPING	MBXX				
252.3851	2 IN AND SMALLER					
252.38511	CS/NNS	MBC1				
252.3852	2.5 IN + LARGER	MBDX				
252.386	VALVES	MCA				
252.3861	GATE	MCA1				
252.3862	CHECK	MCA2				
252.3869	SPECIAL VALVES					
252.38691	BLOWDOWN	MCA9				
252.387	PIPING-MISC.					
252.3871	HANGERS AND SUPPORTS	MAA				
252.3872	INSULATION	MHA2				
252.3873	SPECIALTIES	MAB3				
252.39	AUX STM SYST COMPLETE I&C	MID				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
252.4	PLANT FUEL OIL SYSTEM					
252.43	TANKS + PRESSURE VESSELS					
252.431	FUEL OIL STORAGE TANK	MFC3	356252431	01	0	QUANTITY - 1
				02	0	ORIENTATION - VERTICAL
				03	0	DIMENSIONS - 35 FT DIA X 35 FT
				04	0	VOLUME - 200,000 GAL
				05	0	DESIGN PRESS - ATMOS.
				06	0	DESIGN TEMP - 80 F
				07	0	MATERIAL - CS
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - API 650
252.49	FOUNDATIONS/SKIDS					
252.491	FUEL OIL STG TNK FDTN(COM)					
252.4911	EXCAVATION WORK					
252.49111	EARTH EXCAVATION		GCA12			
252.49112	BACKFILL		GCC12			
252.4912	CONCRETE WORK					
252.49121	FORMWORK		GEA21			
252.49122	REINFORCING STEEL		GEB11			
252.49123	CONCRETE		GEC21			
252.4913	COMPACTED SAND BED		GCC5			
252.4914	DIKE		GCC13			
253.	COMMUNICATIONS EQUIP					
253.1	LOCAL COMMUNICATIONS SYS		E1			
253.11	GEN PURPOSE TELEPHONE SYS	EIFX	35625311	01	0	A COMPLETE DIAL AUTOMATIC TELEPHONE
				02	0	SYSTEM CONSISTING OF AN AUTOMATIC
				03	0	SWITCHBOARD AND DIAL TELEPHONES IS
				04	0	PROVIDED

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
253.12	SOUND POWERED TELEPHONE SY	EIGX	35625312	01	0	PORTABLE SOUND POWERED PHONE HAND-SETS AND JACKS LOCATED THROUGHOUT THE PLANT ARE PROVIDED
				02	0	
				03	0	
253.15	PUB ADDRESS+INTERCOM SYS	EIAX	35625315	01	0	A PA SYSTEM IS PROVIDED COMPRISED OF HANDSETS, AMPLIFIERS AND LOUDSPEAKERS
				02	0	
253.2	SIGNAL SYSTEMS					
253.21	FIRE ALARM SYS IC		35625321	01	0	FIRE ALARM SYSTEM RELATES TO DETECTION ONLY. FIRE PROTECTION FOR VARIOUS AREAS PROCESS SYSTEMS + DISCRETE PIECES OF EQUIPMENT ARE COVERED WITHIN THEIR ASSIGNED ACCOUNT. UNIT-1 CCR IS THE MASTER LOCATION FOR SINGLE OR MULTIUNIT PLANTS.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
253.211	CONTROL ROOM LOGIC/DISPLAY	EEB1	356253211	01	0	QUANTITY: 3 - CABINETS SIZE: 3FT X 3FT X 7.5FT EACH WEIGHT: 1200 LBS EACH DETECTION LOGIC + DISPLAY SYSTEMS FORM PART OF SECURITY SYSTEM.
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
253.212	LOCAL FIRE DETECT. PANELS	EID	356253212	01	0	QUANTITY: 10 - LOCAL ALARM PANELS 1 - SLAVE DISPLAY AT GATE HOUSE
				02	0	
				03	0	
253.22	SECURITY SYSTEM		35625322	01	0	UNIT-1 CCR IS MASTER LOCATION FOR SINGLE UNIT OR MULTIUNIT PLANTS. SLAVE CONTROLS ARE REQUIRED AT GATEHOUSE AND AT OFF-SITE DISASTER COMMAND CENTER.
				02	0	
				03	0	
				04	0	
253.221	SEC SYS - MASTER CONTROLS	EEB1	356253221	01	0	QUANTITY: 1 - 4FT COMBINATION BENCH+ VERTICAL PANEL LOT- DOOR JAMB BOXES + OTHER EMBEDMENTS LOT- DOOR LATCH MECHANISMS LOT- ELECTRONIC ASSEMBLIES LOT- WALL MOUNTED MUX UNITS LOT- PERSONNEL FRISKERS LOT- SPECIAL KEYING + BADGE CONTROL DEVICES
				02	0	
				03	0	
				04	0	
				05	0	
				06	0	
				07	0	
				08	0	
				09	0	
				10	0	
253.222	SEC SYS - SLAVE CONTROLS	EEB2				

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MODEL 356 - 0000 MWE/3000 MWI HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
253.223	CLOSED CIRCUIT TV SYS	EIC	356253223	01	0	QUANTITY: 1-LOT BLACK + WHITE CAMERAS
				02	0	TOWERS-MISC HARDWARE-MOTOR
				03	0	DRIVES -VIDEO EQUIPMENT
253.23	EVACUATION ALARM SYSTEM	EI	35625323	01	0	QUANTITY: 1-LOT OF SIGNALLING EQUIP.
				02	0	THIS IS SEPERATE FROM PA
				03	0	SYSTEM IN 253.15
254.	FURNISHINGS + FIXTURES					
254.1	SAFETY EQUIPMENT					
254.11	PORTABLE FIRE EXTINGUISHERS	MEB4				
254.2	CHEMICAL LAB + INSTR SHOP					
254.223	INSTRUMENT SHOP APPARATUS	MFM				
254.23	SPEC LAB FURNITURE+FIXTURE	GK				
254.3	OFFICE EQUIP+FURNISHINGS					
254.31	OFFICE FURNITURE	GKA1				
254.4	CHANGE ROOM EQUIPMENT					
254.41	LOCKERS+BENCHES	GKB1				
254.5	ENVIRONMENT MONIT EQUIP					
254.51	OFF SITE RADIOLOGICAL MONT	MIA	35625451	01	3	QUANTITY:
				02	3	SITE SURVEILLANCE MONITORS INCLUDING
				03	3	IONIZATION CHAMBER DETECTORS,
				04	3	ELECTROMETER READOUT, BATTERY PACK,
				05	3	MAGNETIC TAPE RECORDER - 5
				06	3	COMPUTER BASED ISOTOPIC IDENTIFICA-
				07	3	TION EQUIPMENT CONSISTING OF GE(LI)
				08	3	DETECTOR, RELATED PANELS - 1
				09	0	RADIOLOGICAL DATA MANAGEMENT PROGRAM-1

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MODEL 356 - 0000 MWE/3000 MWT HTGR = MULTIPLEX = GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
254.52	METEOROLOGICAL MONIT. EQUIP	MID	35625452	01	3	QUANTITY:	
				02	3	MET TOWER -	1
				03	3	EXCLUSION FENCE -	1
				04	3	WIND SPEED AND DIR. SENSORS	2
				05	3	TEMP. AND DEW POINT SENSORS	2
				06	3	BAPOMETRIC PRESS SENSORS -	2
				07	3	RAIN GAGES -	2
				08	3	RELATIVE HUMIDITY SENSORS -	2
				09	3	SIGNAL TRANSMITTERS -	1
				10	3	STRIP CHART RECORDERS -	2
254.53	WATER QUALITY MONITORING	MID	35625453	01	3	WATER QUALITY ANALYZER EQUIPMENT	
254.54	THERMAL EFFLUENT MONITOR	MID	35625454	01	3	TEMPERATURE DETECTORS	
254.55	SEISMIC MONITORING SYSTEM	MIA					
254.6	DINING FACILITIES						
254.61	CAFETERIA EQUIPMENT	GKC					
26 .	MAIN COND HEAT REJECT SYS		35626.	01	0	TWO 50 PCT COOLING TOWERS DESIGNED FOR	
				02	3	74 F WET BULB TEMP., 22.4 F APPROACH	
				03	0	DIFFERENTIAL, CONDENSER TEMPERATURE	
				04	3	RISE 19.2 F, MAINTAINS THE CIRCULATING	
				05	0	Basin WATER TEMPERATURE AT A MAXIMUM OF	
				06	3	96.4 F.	
				07	0		
				08	0	FOUR 25 PCT CAPACITY CIRCULATING	
				09	0	WATER PUMPS SIZED FOR THE REQUIRED	
				10	0	COOLING WATER FLOW TO THE CONDENSER	
				11	0	PLUS ALLOWANCES FOR SYSTEM BLOWDOWN AND	
				12	0	EVAPORATION.	
				13	0		
				14	0	TWO 100 PCT CAPACITY MAKE UP WATER	
				15	0	PUMPS EACH SIZED ON MAXIMUM ESTIMATED	
				16	0	SINGLE UNIT BLOWDOWN AND EVAPORATION	
				17	0	LOSSES, DELIVER RAW WATER FROM THE	
				18	0	STATION INTAKE STRUCTURE TO THE MAIN	
				19	0	COOLING TOWER BASIN.	

261. STRUCTURES

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
261.1	MAKEUP WTR INT + DISCH STR		3562611	01	0	A NON-SEISMIC CATEGORY I CONCRETE
				02	0	STRUCTURE WITH THE UNDERGROUND INTAKE
				03	0	BASIN SUPPORTED ON A 3 FT THICK MAT AND
				04	0	THE ADJACENT BATTERY ROOM, SWITCHGEAR
				05	0	ROOM AND OVERHANGING PUMP ROOM
				06	0	SUPPORTED ON SPREAD FOOTINGS. THE
				07	0	EXTERIOR WALLS, INTERIOR WALLS AND
				08	0	INTERIOR SLABS ARE REINFORCED CONCRETE
				09	0	AND MASONRY. DIMENSIONS OF THE INTAKE
				10	3	BASIN ARE 30 FT X 40 FT AND THE VOLUME
				11	3	IS APPROXIMATELY 41,400 CU FT. A CHANNEL
				12	0	WILL BE EXCAVATED IN THE RIVER BOTTOM
				13	0	FROM THE SHIP CHANNEL TO THE INTAKE
				14	0	STRUCTURE TO INSURE ADEQUATE SUPPLY OF
				15	0	WATER DURING LOW TIDE CONDITIONS.
				16	0	DISCHARGE IS PROVIDED BY CONCRETE PIPES
				17	0	RUNNING BETWEEN THE COOLING TOWERS AND
				18	0	THE RIVER.
261.11	INTAKE STRUCTURE					
261.111	EXCAVATION WORK					
261.1111	EARTH EXCAVATION		GCA12			
261.1112	ROCK EXCAVATION		GCA3			
261.1113	SHEETING (TEMP COFFERDAM)		GCD3			
261.1114	STRCT STL (TEMP COFFERDAM)		GCD3			
261.1115	PUMPING		GCBX			
261.113	SUBSTRUCTURE CONCRETE					
261.1131	FORMWORK		GEA21			
261.1132	REINFORCING STEEL		GEB11			
261.1133	CONCRETE		GEC21			
261.1134	EMBEDDED STEEL		GED2			
261.1135	CONCRETE FINISH		GEE2			

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
261.1136	WATERPROOFING	GEFX				
261.1137	CONSTRUCTION JOINTS	GEGX				
261.1138	RUBBING CONCRETE SURFACES	GEE1				
261.114	SUPERSTRUCTURE					
261.1141	CONCRETE WORK					
261.1142	STRUCTURAL + MISC. STEEL					
261.11421	STRUCTURAL STEEL	GFA				
261.11425	GRATING (GALV)	GFC1				
261.11427	HANDRAIL	GF81				
261.1143	EXTERIOR WALLS					
261.11431	CONCRETE	GEC2				
261.11432	MASONRY	GGA3				
261.1144	ROOF DECK					
261.11441	METAL ROOF DECK	GGB1				
261.1145	ROOFING + FLASHING					
261.11451	B.U. ROOFING, INSUL + FLASH	GGB2				
261.1146	INTERIOR WALLS					
261.11461	CONCRETE WALLS	GEC2				
261.11462	MASONRY WALLS	GGA3				
261.11463	PARTITIONS	GGA2				
261.1147	DOOR + WINDOWS					
261.11471	ROLLING STEEL DOORS	GGD1				
261.11472	PERSONNEL DOORS	GGD2				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						12345678901234567890123456789
261.11473	SASH + GLAZING	GGCX				
261.1149	PAINTING					
261.11491	CONCRETE	GGF1				
261.11492	STEELWORK	GGF2				
261.11493	METAL DECK	GGF5				
261.11494	HANDRAIL	GGF6				
261.117	BULKHEAD					
261.1171	STEEL SHEETING	GCD1				
261.1172	STRUCTURAL STEEL	GFA				
261.1173	GRAVEL FILL	GCC41				
261.1174	DREDGING	GCA4				
261.1175	RIP-RAP (12 IN. THICK)	GCC3				
261.1176	CHAIN LINK FENCE (7 FT HI)	GJC				
261.118	PROTECTIVE DOLPHINS					
261.1181	WOOD PILES	GDA1				
261.119	BUILDING SERVICES					
261.1191	FLOOR DRAINS + PIPING					
261.11911	DRAINS	MDB1				
261.11915	PIPING	MBXX				
261.1192	HEATING, VENT. + AIR COND.					
261.11921	AXIAL WALL FANS	MFQ2				
261.11922	ELECTRIC UNIT HEATERS	MFR1				
261.11928	INSTRUMENTATION + CONTROL	MID				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
261.12	DISCHARGE STRUCTURE					
261.121	EXCAVATION WORK					
261.1211	EARTH EXCAVATION	GCA12				
261.1212	BACKFILL	GCC12				
261.1213	DREDGING	GCA4				
261.122	BEARING PILES (STEEL)	GDA2				
261.127	RIP-RAP (12 IN. THICK)	GCC3				
261.128	MARKER PILES (WOOD)	GDA1				
261.2	CIRC WATER PUMP HOUSE					
261.21	BUILDING STRUCTURE					
261.211	EXCAVATION WORK					
261.2111	EARTH EXCAVATION	GCA12				
261.2112	ROCK EXCAVATION	GCA3				
261.2113	CONCRETE FILL	GEC1				
261.2114	BACKFILL	GCC12				
261.2115	PUMPING	GCBX				
261.213	SUBSTRUCTURE CONCRETE					
261.2131	FORMWORK	GEA21				
261.2132	REINFORCING STEEL	GEB11				
261.2133	CONCRETE	GEC21				
261.2134	EMBEDDED STEEL	GED2				
261.2135	FLOOR FINISH	GEE2				
261.2136	WATERPROOFING	GEF				

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MODEL 356 - 0000 MWE/3000 MW HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
261.2137	CONSTRUCTION JOINTS	GEG				
261.2138	RUBBING CONCRETE SURFACES	GEE1				
261.2139	WIRE FABRIC	GEB3				
261.214	SUPERSTRUCTURE					
261.2141	CONCRETE WORK					
261.21411	FORMWORK					
261.214111	FORMWORK-WOOD	GEA22				
261.214112	FORMWORK-METAL	GEA1				
261.21412	REINF. STEEL	GEB12				
261.21413	CONCRETE	GEC22				
261.21414	EMBEDDED STEEL	GED2				
261.21415	FLOOR FINISH	GEE2				
261.21416	WATERPROOFING	GEF				
261.21417	RUBBING CONCRETE SURFACES	GEE1				
261.21418	CONSTRUCTION JOINTS	GEG				
261.2142	STRUCT + MISC. STEEL					
261.21423	MISC. FRAMES, ETC.	GFB4				
261.21425	FLOOR GRATING (GALV.)	GFC1				
261.21427	HANDRAILS	GFB1				
261.2143	EXTERIOR WALLS					
261.21431	CONCRETE WALLS	GEC2				
261.21432	MASONRY WALLS	GGA3				
261.2144	ROOF DECK					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO.	DESCRIPTION
					123456789012345678901234567890123456789
261.21441	METAL ROOF DECK	GGB1			
261.2145	ROOFING + FLASHING				
261.21451	BU ROOFING, FLASHING & INS	GGB2			
261.2146	INTERIOR WALLS + PARTIT.				
261.21461	CONCRETE WALLS	GEC2			
261.21463	PARTITIONS	GGA2			
261.2147	DOORS + WINDOWS				
261.21472	PERSONNEL DOORS	GGD2			
261.21473	SASH + GLAZING	GGC			
261.2149	PAINTING				
261.21491	CONCRETE	GGF1			
261.21492	STEELWORK	GGF2			
261.21493	METAL DECK	GGF5			
261.21494	HANDRAIL	GGF6			
261.22	BUILDING SERVICE				
261.221	PLUMBING + DRAINS				
261.2211	ROOF DRAINS & PIPING				
261.22111	DRAINS	MDA1			
261.22115	PIPING (ALL 2.5 IN + LGR)				
261.221151	GALV STEEL/NNS	MBD3			
261.2212	FLOOR DRAINS & PIPING				
261.22121	DRAINS	MDB1			
261.22125	PIPING (ALL 2.5 IN + LGR)				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	123456789012345678901234567890123456789
261.221251	CI/NNS	MBD7					
261.221252	PVC/NNS	MBD5					
261.222	HEATING, VENT, + AIR COND	MFQ					
261.2221	ROTATING MACHINERY						
261.22211	PROPELLER FAN + MOTOR	MFQ1					
261.222111	PROPELLER FAN	MFQ2	356261222111	01	0	QUANTITY -	3 X 33-1/3 PCT
				02	3	TYPE -	WITH GUARD AND AUTO
				021	3		OUTLET DAMPERS
				03	0	FLOW RATE -	2500 CFM
				04	0	STATIC PRESS	0.5 IN.
				05	3	SAFETY CLASS	NNS
				06	3	SEISMIC CAT	NONE
				07	3	DESIGN CODE -	
261.222112	PROPELLER FAN MOTOR	EHXX	356261222112	01	0	QUANTITY -	3
				011	3	TYPE -	AC INDUCTION
				02	0	HORSEPOWER -	0.75 HP
				03	3	SPEED -	
				04	3	VOLTAGE -	460 V, 3 PHASE, 60 HZ
261.2222	HEAT TRANSFER EQUIPMENT						
261.22221	ELECTRIC UNIT HEATERS+MTR	MFR1					
261.222211	ELECTRIC UNIT HEATERS	MFR2	356261222211	01	3	QUANTITY -	4
				02	3	HEAT ELEMENTS:	
				03	3	NUMBER -	
				04	3	POWER -	30 KW
				05	3	VOLTAGE -	460 V, 3 PHASE, 60 HZ
				06	3	FAN:	
				07	3	FLOW -	2,200 CFM
				08	3	S.P. -	
				09	3	SAFETY CLASS -	
				10	3	SEISMIC CAT	
				11	3	DESIGN CODE -	

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
261.222212	ELECTRIC UNIT HTR MOTORS	EHXX	356261222212	01	3	QUANTITY - 4
				011	3	TYPE -
				02	3	HORSEPOWER - 0.25 HP
				03	3	SPEED -
				04	3	VOLTAGE - 115 V, 1 PH, 60 HZ
261.2226	VALVES + DAMPERS					
261.22269	SPECIAL VALVES + DAMPERS					
261.222691	INTAKE LOUVERS	MFQ6	356261222691	01	3	QUANTITY - 3
				02	3	TYPE - MANUAL OP INTAKE LOUVER
				03	3	FLOW - 1.2 EOS CFM
				04	3	SIZE - 44 FT W X 8 FT H
				05	3	MATERIAL -
				06	3	SAFETY CLASS -
				07	3	SEISMIC CAT -
261.224	LIGHTING & SERVICE POWER	EBB				
261.228	INSTRUMENTATION + CONTROL	MID1				
261.3	MAKEUP WTR PRETREATMNT BLG					
261.31	BUILDING WORK					
261.311	EXCAVATION WORK					
261.3111	EARTH EXCAVATION	GCA12				
261.3112	ROCK EXCAVATION	GCA3				
261.3113	CONCRETE FILL	GEC1				
261.3114	FILL + BACKFILL	GCC12				
261.313	SUBSTRUCTURE CONCRETE					
261.3131	FORMWORK	GEA21				
261.3132	REINFORCING STEEL	GEB11				
261.3133	CONCRETE	GEC21				
261.3134	EMBEDDED STEEL	GED22				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE LEVEL NO. NO.	DESCRIPTION
					123456789012345678901234567890123456789
261.3135	FLOOR FINISH	GEE2			
261.3136	WATERPROOFING	GEF			
261.3137	CONSTRUCTION JOINTS	GEG			
261.3138	RUBBING CONCRETE SURFACES	GEE1			
261.314	SUPERSTRUCTURE				
261.3141	CONCRETE WORK				
261.31411	FORMWORK				
261.314111	FORMWORK-WOOD	GEA22			
261.314112	FORMWORK-METAL	GEA1			
261.31412	REINFORCING STEEL	GEB12			
261.31413	CONCRETE	GEC22			
261.31414	EMBEDDED STEEL	GED22			
261.31415	FLOOR FINISH	GEE2			
261.31418	CONSTRUCTION JOINTS	GEG			
261.3142	STRUCTURAL AND MISC. STEEL				
261.31421	STRUCTURAL STEEL	GFA			
261.31423	MISCELLANEOUS FRAMES, ETC.	GFB4			
261.31425	FLOOR GRATING (GALV.)	GFC1			
261.31426	STAIR TREADS	GFB2			
261.31427	HANDRAIL	GFB1			
261.3143	EXTERIOR WALL				
261.31433	METAL INSULATED SIDING	GGA1			
261.3144	ROOF DECK				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
261.31442	CONCRETE PLANK	GGB4				
261.31443	CONCRETE FILL	GEC23				
261.31444	REINFORCING STEEL	GEB13				
261.3145	ROOFING AND FLASHING					
261.31452	B.U. ROOF+FLASH(NO INSUL)	GGB3				
261.3146	INTERIOR WALLS + PARTITION					
261.31462	CONCRETE BLOCK	GGA6				
261.3147	DOORS AND WINDOWS					
261.31471	ROOLING STEEL DOORS	GGD1				
261.31472	PERSONNEL DOORS	GGD2				
261.3149	PAINTING					
261.31491	CONCRETE	GGF1				
261.31492	STEEL WORK	GGF2				
261.31493	METAL DECK	GGF5				
261.31494	SPECIAL METALLIC PAINT	GGF7				
261.31495	HANDRAIL	GGF6				
261.31496	EPOXY	GGF7				
261.32	BUILDING SERVICES					
261.321	PLUMBING + DRAINS					
261.3211	ROOF DRAINS + PIPING					
261.32111	DRAINS	MDA1				
261.32115	PIPING (ALL 2.5 IN + LARGER					
261.321151	GALV STEEL/NNS	MBD3				

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
				1234567890	1234567890	12345678901234567890123456789
261.3212	FLOOR DRAINS + PIPING					
261.32121	DRAINS					
261.32125	PIPING (ALL 2.5 IN+LARGER)					
261.321251	CS/NNS					
261.321252	CI/NNS					
261.322	HEATING, VENT. + AIR COND.					
261.3221	ROTATING MACHINERY					
261.32211	ROOF VENTILATORS + MOTORS					
261.322111	ROOF VENTILATORS					
261.322112	ROOF VENTILATORS MOTOR					
261.3222	HEAT TRANSFER EQUIPMENT					
261.32221	ELECTRIC UNIT HEATER + MTR					
261.322211	ELECTRIC UNIT HEATER					
261.322212	ELECTRIC UNIT HEATER MOTOR					
261.3226	VALVES + DAMPERS					
261.32269	SPECIAL VALVES					
261.322691	INTAKE LOUVERS					
261.3228	INSTRUMENTATION + CONTROL					
261.324	LIGHTING + SERVICE POWER					
261.4	CHLORINATION BUILDING		3562614	01	0	MASONRY BUILDING SUPPORTED ON WALL
				02	0	FOOTINGS. DIMENSIONS ARE 10 FT X 10FT
				03	0	WITH A VOLUME OF 1000 CU. FT.
261.41	BUILDING STRUCTURE					
261.411	EXCAVATION WORK					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC LINE LEVEL REF. NUMBER NO. NO.	DESCRIPTION
261.4111	EARTH EXCAVATION	GCA12	12345678901234567890123456789	
261.4114	BACKFILL	GCC12		
261.413	SUBSTRUCTURE CONCRETE			
261.4131	FORMWORK	GEA21		
261.4132	REINF. STEEL	GER11		
261.4133	CONCRETE	GEC21		
261.4134	EMBEDDED STEEL	GED2		
261.4135	FLOOR FINISH	GEE2		
261.4136	WATERPROOFING	GEFX		
261.4137	CONSTRUCTION JOINTS	GEG		
261.4138	RUBBING CONCRETE SURFACES	GEE1		
261.4139	WIRE FABRIC	GEB3		
261.414	SUPERSTRUCTURE			
261.4141	CONCRETE WORK			
261.4142	STRUCT. + MISC. STEEL			
261.41421	STRUCT. STEEL	GFAx		
261.41423	MISC. FRAMES, ETC.	GFB4		
261.4143	EXTERIOR WALLS			
261.41432	MASONRY	GGA3		
261.4144	ROOF DECK			
261.41441	METAL ROOF DECK	GGB1		
261.4145	ROOFING + FLASHING			
261.41451	B.U. ROOFING, FLASHING+INSUL	GGB2		

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MODEL 356 - 0000 MWE/3000 MWY HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
261.4147	DOORS + WINDOWS					
261.41472	PERSONNEL DOORS	GGD2				
261.41473	SASH + GLAZING	GGC				
261.4149	PAINTING					
261.41492	STEELWORK	GGF2				
261.41493	METAL DECK	GGF5				
261.42	BUILDING SERVICES					
261.422	HEATING, VENT, + AIR COND.	MFO				
261.424	LIGHTING + SERVICE POWER	EBBX				
262.	MECHANICAL EQUIPMENT					
262.1	HEAT REJECTION SYSTEM					
262.11	WATER INTAKE SYSTEM					
262.111	ROTATING MACHINERY					
262.1111	SCREEN WASH P.M.P.S. + MTRS	MFA1				
262.11111	SCREEN WASH PUMP	MFA2	35626211111	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - VERTICAL
				04	0	FLOW RATE - 300 GPM
				05	0	SPEED - 3520 RPM
				06	0	TDH - 200 FT
				07	0	BHP - 20 HP
				08	0	NPSH - 20 FT
				09	0	EFFICIENCY - 74 PCT
				10	0	DESIGN PRESS - 100 PSI
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CAST IRON COLUMN AND BOWL, BRONZE IMPELLER
				121	0	
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
262.11112	SCREEN WASH PUMP MOTOR	EHXX	35626211112	01	0	QUANTITY - 2
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 25 HP
				04	0	SPEED - 3600 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
262.114	PURIF. FILTRATION EQUIP.					
262.1141	TRAVELING SCREENS	MFH1	3562621141	01	0	QUANTITY - 3 X 50 PCT
				02	0	SCREEN SIZE - 5FT-6IN WIDE X 27 FT H
				03	0	BASKET SIZE - 5 FT WIDE X 30 IN HIGH
				04	0	3/8 IN S.S. MESH
				05	0	SCREEN SPEED: HIGH -
				06	0	LOW -
				07	0	FLOW VELOCITY - 1/2 FPS APPROACH SCREEN
				08	0	1 FPS THROUGH MESH
				09	0	DESIGN FLOW - 10,000 GPM
				10	0	MIN SUBMERGENCE-7 FT
262.1142	TRASH RACK	MFG1	3562621142	01	0	TYPE - VERTICAL BARS
				02	0	DIMENSIONS - 0.5 IN WIDE BY 3.5 IN
				03	0	DEEP BY 30 FT HIGH, BAR
				04	0	SPACING - 3.5 IN APART
				05	0	MATERIAL - CARBON STEEL
262.1143	TRASH RAKE	MFG1	3562621143	01	0	MOTORIZED, FULLY AUTOMATIC RAKING TYPE,
				02	0	SIZED TO CLEAN RACK IN FRONT OF EACH
				03	0	SCREEN IN SINGLE PASS.
262.1144	STOP LOGS	MFG3	3562621144	01	0	REINFORCED CONCRETE PLANKS, 6 IN THICK
				02	0	BY 18 IN HIGH BY 6 FT LONG, 40 REQUIRED
262.1145	SCREEN WASH STRAINER	MFH1	3562621145	01	0	QUANTITY - 1
				02	0	TYPE - AUTOMATIC-SELF CLEANING
				03	0	FLOW RATE - 300 GPM
				04	0	DESIGN PRESS - 50 PSIG
				05	0	DESIGN TEMP - 100 F
				06	0	DIFF. PRESS:
				07	0	CLEAN/DIRTY - - / 2 PSI
				08	0	RATING/SIZE - - / 1/8 IN. MESH
				09	C	MATERIAL - C.S. BODY, S.S. MESH
				11	0	SAFETY CLASS - NNS
				12	0	SEISMIC CAT. - NONE
				13	0	DESIGN CODE -

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
262.115	PIPING-SCREEN WASH	MBE1				
262.1151	2 IN + SMALLER	MBCX				
262.1152	2.5 IN + LARGER					
262.11521	CS/NNS	MBD1				
262.116	VALVES-SCREEN WASH	MCA				
262.1162	CHECK	MCA2				
262.1163	GLOBE	MCA3				
262.1166	BUTTERFLY	MCA6				
262.118	INSTRUMENTATION + CONTROL	MID	356262118	01	0	INTAKE STRUCTURE PROCESS SYSTEMS
				02	0	
				03	0	PANEL: PROVIDES LOCAL CONTROLS FOR
				04	0	2-SCREEN WASH PUMPS + VLVS
				05	0	3-MAKEUP WATER PUMPS + VLVS
				06	0	2-TRAVELING SCREENS
				07	0	SUPERVISORY CONTROLS USED FOR CCR
				08	0	INTERFACE -10 CHANNELS MINIMUM
				09	0	ALLOWANCE
262.12	CIRCULATING WATER SYSTEM					
262.121	ROTATING MACHINERY					
262.1211	CIRCULATING WATER PUMP+MTR	MFA1				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
262.12111	CIRC. WATER PUMP	MFA2	35626212111	01	3	QUANTITY - 3 X 33-1/3 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - VERTICAL
				04	3	FLOW RATE -
				05	3	SPEED -
				06	3	TDH -
				07	3	BHP -
				08	3	NPSH -
				09	3	EFFICIENCY -
				10	0	DESIGN PRESS - 50 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CASING: CAST IRON
				121	0	IMPELLER: S.S.
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
262.12112	CIRC. WATER PUMP MOTOP	EHXX	35626212112	01	0	QUANTITY - 4
				02	0	TYPE - S.C.I.M.
				03	3	HORSEPOWER -
				04	3	SPEED -
				05	0	VOLTAGE - 4,000 V, 3 PHASE, 60 HZ
262.125	PIPING					
262.1251	2 IN + SMALLER	MBCX				
262.12511	CS/NNS	MBC1				
262.1252	2.5 IN. + LARGER					
262.12521	CONCRETE/NNS	MBD6				
262.12522	CS/NNS	MBD1				
262.126	VALVES	MCA				
262.1263	GLOBE	MCA3				
262.1266	BUTTERFLY	MCA6				
262.1269	SPECIAL VALVES	MCA9				
262.12691	CONTROL	MCA9				

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
262.127	PIPING/MISC. ITEMS+SUPPORT						
262.1271	HANGERS + SUPPORTS	MAAX					
262.1272	INSULATION	MHA2					
262.1273	SPECIALTIES	MAB3					
262.1274	PIPE TRENCHING						
262.12741	EXCAVATION	GCA12					
262.12742	BACKFILL	GCC12					
262.12743	COMPACTED SAND BED	GCC5					
262.12744	SUBSTRUCTURE CONCRETE						
262.127441	FORMWORK	GEA21					
262.127442	REINFORCING STEEL	GEB11					
262.127443	CONCRETE	GEC21					
262.128	INSTRUMENTATION + CONTROL	MID	356262128	01	0	TRANSMITTERS -	28
				02	0	MISC. DEVICES -	24
				03	0	INSTR. RACKS -	13 FT
				04	0	TEMP SENSORS -	66
				05	0	FLOW ELEMENT -	4
				07	0	TUBING -	2700 FT
262.129	SKIDS/FOUNDATIONS						
262.1291	CHLORINATION SYSTEM	MF15	3562621291	01	0	12,000 LB. PER DAY CHLORINATOR USING	
				02	0	LIQUID CHLORINE STORED IN 1 TON	
				03	0	CYLINDERS. CHLORINATOR IS COMPLETE WITH	
				04	0	REGULATOR, WATER DILUTION STATION,	
				05	0	EVAPORATOR, RUBBER LINED PIPING AND	
				06	0	VALVES.	
262.1292	SULFURIC ACID FEED SYSTEM						
262.12921	ROTATING MACHINERY						

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
262.129211	SULFURIC ACID FEED PUMP	MFA2	356262129211	01	0	QUANTITY - 2 X 100 PCT
				02	0	TYPE - POSITIVE DISPLACEMENT
				03	0	ORIENTATION - HORIZONTAL
				04	0	FLOW RATE - 0-50 GPH
				05	0	SPEED - 1800 RPM
				06	0	TDH - 100 FT
				08	0	NPSH - 10 FT
				10	0	DESIGN PRESS - 100 PSIG
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - ALLOY 20
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
262.129212	SULF ACID FEED PUMP MOTOR	EHXX	356262129212	01	0	QUANTITY - 2
				02	0	TYPE - S.C.I.M.
				03	0	HORSEPOWER - 1 HP
				04	0	SPEED - 1800 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
262.12923	TANKS + PRESSURE VESSELS					
262.129231	SULF ACID STORAGE TANK	MFC1	356262129231	01	0	QUANTITY - 1
				02	0	ORIENTATION - HORIZONTAL
				03	0	DIMENSIONS -
				04	0	VOLUME - 16,000 GAL
				05	0	DESIGN PRESS - 15 PSIG
				06	0	DESIGN TEMP - 100 F
				07	0	MATERIAL - CARBON STEEL
				08	0	SAFETY CLASS - NNS
				09	0	SEISMIC CAT. - NONE
				10	0	DESIGN CODE - AWAS
262.12925	PIPING	MBXX				
262.129251	2 IN. + SMALLER - CS/NNS	MBC1				
262.129252	2.5 IN + LARGER	MBDX				
262.12926	VALVES	MCA				
262.13	COOLING TOWER SYSTEM					
262.132	HEAT TRANSFER EQUIPMENT					

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION	12345678901234567890123456789
262.1321	COOLING TOWERS (CT)-MAIN	MFBT	3562621321	01	0	QUANTITY -	2 X 50 PCT
				02	0	TYPE -	CIRC. MECH. DRAFT
				021	0		CONCRETE SHELL
				03	3	CONCRETE SHELL WIDTH -	
				04	3	HEIGHT TO FAN DECK -	
				05	3	VOLUME OF BASIN -	
				06	3	NO. OF FANS -	
				07	3	HEIGHT OF FAN SHROUD -	
				08	3	DIAMETER OF FAN -	
				09	3	POWER OF FAN -	
				10	3	DESIGN FLOW -	
				11	3	DESIGN WET BULB -	
				12	3	DESIGN APPROACH -	
				13	3	DESIGN RANGE -	
				14	0	SAFETY CLASS -	NNS
				15	0	SEISMIC CAT -	NONE
				16	0	DESIGN CODE -	
262.138	INSTRUMENTATION + CONTROL	MID					
262.15	MAIN CT MAKEUP+BLOWDOWN SYS						
262.151	MAKE-UP WATER SYSTEM						
262.1511	ROTATING MACHINERY						
262.15111	MAKE-UP PUMP + MOTOR	MFA1					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
262.151111	COOLING TOWER MAKE-UP PUMP	MFAZ	356262151111	01	3	QUANTITY - 3 X 50 PCT
				02	3	TYPE - CENTRIFUGAL
				03	3	ORIENTATION - VERTICAL
				04	3	FLOW RATE - 3600 GPM
				05	3	SPEED - 1180 RPM
				06	3	TDH - 70 FT
				07	3	BHP - 76 HP
				08	3	NPSH - 22 FT
				09	3	EFFICIENCY - 83 PCT
				10	3	DESIGN PRESS - 75 PSI
				11	3	DESIGN TEMP - 100 F
				12	3	MATERIAL - CAST IRON COLUMN AND
				121	3	BOWL, BRONZE IMPELLER
				122	3	SAFETY CLASS - NNS
				123	3	SEISMIC CAT. - NONE
				13	3	DESIGN CODE -
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -
262.151112	MAKE-UP PUMP MOTOR	EHXX	356262151112	01	3	QUANTITY - 3
				02	3	TYPE - S.C.I.M.
				03	3	HORSEPOWER - 100 HP
				04	3	SPEED - 1200 RPM
				05	3	VOLTAGE - 460 V, 3 PHASE, 60 HZ
262.151112	CYCLE MAKE-UP PUMPS+MOTORS	MFA1				
262.151121	PUMPS	MFAZ	356262151121	01	0	QUANTITY - 3 X 50 PCT
				02	0	TYPE - CENTRIFUGAL
				03	0	ORIENTATION - VERTICAL
				04	0	FLOW RATE - 150 GPM
				05	0	SPEED - 3550 RPM
				06	0	TDH - 300 FT
				07	0	BHP - 15.6 HP
				08	0	NPSH REQ'D - 12 FT
				09	0	EFFICIENCY - 73 PCT
				10	0	DESIGN PRESS - 250 PSI
				11	0	DESIGN TEMP - 100 F
				12	0	MATERIAL - CAST IRON COLUMN AND
				121	0	BOWL BRONZE IMPELLER
				13	0	SAFETY CLASS - NNS
				14	0	SEISMIC CAT. - NONE
				15	0	DESIGN CODE -

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
262.151122	MOTORS		356262151122	01	0	QUANTITY - 3
				02	0	TYPE - AC INDUCTION
				03	0	HORSEPOWER - 20 HP
				04	0	SPEED - 3600 RPM
				05	0	VOLTAGE - 460 V, 3 PHASE, 60 HZ
262.1515	PIPING					
262.15151	2 IN + SMALLER		MBCX			
262.151511	CS/NNS		MBC1			
262.15152	2.5 IN + LARGER					
262.151521	CONCRETE/NNS		MBD6			
262.151522	CS/NNS		MBD1			
262.1516	VALVES		MCA			
262.15162	CHECK		MCA2			
262.15163	GLOBE		MCA3			
262.15166	BUTTERFLY		MCA6			
262.1517	PIPING- MISC. ITEMS					
262.15171	HANGERS + SUPPORTS		MAAX			
262.15172	INSULATION		MHA2			
262.15173	SPECIALTIES		MAB3			
262.15174	PIPE TRENCHING					
262.151741	EXCAVATION		GCA12			
262.151742	BACKFILL		GCC12			
262.151743	COMPACTED SAND BED		GCC5			
262.1518	INSTRUMENTATION + CONTROL		MID			
262.152	BLOWDOWN SYSTEM					

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ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
262.1525	PIPING					
262.15251	2 IN + SMALLER	MBCX				
262.152511	CS/NNS	MBC1				
262.15252	2.5 IN + LARGER					
262.152521	CONCRETE/NNS	MBD6				
262.152522	CS/NNS	MBD1				
262.1526	VALVES	MCA				
262.15263	GLOBE	MCA3				
262.15266	BUTTERFLY	MCA6				
262.1527	PIPING-MISC. ITEMS					
262.15271	HANGERS + SUPPORTS	MAAX				
262.15272	INSULATION	MHA2				
262.15273	SPECIALTIES	MAB3				
262.15274	PIPE TRENCHING	GCXX	35626215274	01	0	INCLUDED IN ACCOUNT NO. 262.15174
262.153	MAKEUP WTR PRETREATMNT SYS	MFH				
27 .	CHEMICAL PLANT SYSTEM		35627	01	3	PROCESS GAS CHEMICAL SYSTEM TO PRODUCE
				02	3	1,080,000 POUNDS PER HOUR OF GAS IN A
				03	3	STEAM-METHANE REFORMER FOR DISTANT
				04	3	USERS WHO WILL EXTRACT HEAT BY METHAN-
				05	3	ATION AND RETURN THE RESULTANT GAS FOR
				06	3	PROCESSING.

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MODEL 356 - 0000 MWE/3000 MWT HTGR - MULTIPLEX - GAS COOLED PEBBLE BED REACTOR - COST BASIS 01/79

ACCOUNT NUMBER	ITEM	AUX SORT	MINI-SPEC REF. NUMBER	LINE NO.	LEVEL NO.	DESCRIPTION
						123456789012345678901234567890123456789
271.	CONDENSERS		356271	01	3	SIX HORIZONTAL SHELL AND TUBE CONDENSERS
				02	3	SHELL DIAMETER - 15 FT
				03	3	TUBE LENGTH - 36 FT
				04	3	TUBE DIAMETER - 3/4 IN X 16 BWG
				05	3	NO. OF TUBES - 19333
				06	3	SURFACE AREA -
				07	3	THERMAL DUTY - 484,621,000 BTU/HR
				08	3	DESIGN CONDITIONS -
				09	3	TUBE SIDE -
				10	3	PRESSURE - 650 PSIG
				11	3	TEMPERATURE - 1050 F
				12	3	MATERIAL - TYPE 304 SS
				13	3	SHELL SIDE -
				14	3	PRESSURE - 150 PSIG
				15	3	TEMPERATURE - 200 F
				16	3	MATERIAL - CARBON STEEL
				17	3	CONSTRUCTION CODE - ASME VIII
271.1	MOISTURE SEPARATORS		3562711	01	3	SIX MOISTURE SEPARATORS EACH SIZED TO
				02	3	SEPARATE 268,370 POUNDS PER HOUR OF
				03	3	WATER FROM A STREAM CONTAINING 450,000
				04	3	POUNDS PER HOUR OF A GAS/WATER MIXTURE.
272.	GLYCOL DEHYDRATOR		356272	01	3	SIX PACKAGED UNITS OF GLYCOL DEHYDRAT-
				02	3	ORS SIZED TO REDUCE WATER CONTENT IN
				03	3	PROCESS GAS TO A >DRY> CONSISTENCY. THE
				04	3	PACKAGE UNITS WILL BE FURISHED WITH
				05	3	GLYCOL CONTACTOR COLUMNS, SCRUBBERS,
				06	3	HEAT EXCHANGERS, DEMISTERS, REBOILERS,
				07	3	FILTERS, STILL COLUMNS, AND GLYCOL
				08	3	TRANSFER PUMPS. EACH UNIT IS SIZED TO
				09	3	PROCESS 180,000 POUNDS PER HOUR OF
				10	3	PROCESS GAS AND REMOVE 1630 POUNDS PER
				11	3	HOUR OF ENTRAINED MOISTURE.
273.	GAS COMPRESSORS		356273	01	3	SIX CENTRIFUGAL COMPRESSORS SIZED FOR
				02	3	A CAPACITY OF 111,000 SCFM OF PROCESS
				03	3	GAS. COMPRESSOR IS 3600 HP, DISCHARGE
				04	3	PRESSURE 490 PSIA, COMPLETE WITH MOTOR
				05	3	DRIVES.
274.	GAS MIXERS		356274	01	3	SIX PIPELINE MIXERS, EACH SIZED TO MIX
				02	3	90,000 POUNDS PER HOUR OF METHANE AND
				03	3	360,000 POUNDS PER HOUR OF 566 PSIA
				04	3	SATURATED STEAM.

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