

**SCOPE OF SUPPLY MATRIX**

Customer: *VeriSign Corporation*  
 Project: **Ukraine Emergency Power**  
 Type of Units: **FT8® Gas Turbine MOBILEPAC® Unit**  
 No. of Units: **Two (2)** Qty:2  
 Site Location: **Ukraine**  
 Site Conditions: **TBD**  
 Plant Operating Scheme: **Dual Fuel, Water Injection, 50Hz Application**

# Mitsubishi Power Aero

Line No.	Item	Description	Quantity	Design	Supply	Erection	Notes
1000	I.	<b>Power Trailer</b>	2	M	M	C	<b>Finish Painted aluminum enclosure</b>
1002		* Sound attenuation to meet 95 dB(A) Average		M	M		Average at 3 feet (one meter)
1004		* Ambient Temperature Operation		M	M		Warm Weather Operation Designed for 0 °C to 49 °C
1006		* Three point jacking and leveling system		M	M	C	Jacks shipped separate & installed by customer. Customer to provide level and compacted site with soil of at least 191,521 Pa. (4000 lbs per square foot) compressive strength. If dirt or gravel utilized instead of concrete then accommodations need to be made to secure some auxiliary skids & platforms.
1100		<b>Gas Turbine/Generator Package</b>	2	M	M		
1102		Gas Turbine Section of Power Trailer		M	M		
1104		*Gas Generator (GG8-3 Core Engine)	2	M	M		Dual Fuel Manifold, Refurbished unit
1106		*Power Turbine (PT)	2	M	M		New unit
1108		*Inlet Plenum		M	M		
1110		*Diffuser		M	M		
1112		*Exhaust Collector Box		M	M		
1114		*Secondary cooling air system with Inlet Silencer		M	M		
1116		*Fabricated gas turbine base and mount assembly		M	M		
1118		*Flexible coupling connecting power turbine and generator		M	M		
1120		*Ignition system		M	M		
1122		*Interior AC/DC lighting		M	M		
1124		*Quick Disconnect Electrical Interface		M	M		
1126		*Off-line compressor internal water wash system		M	M		Pipe, nozzle, valve internal to Power Trailer included. For warm weather operation. 0 °C to 49 °C
1128		*Hydraulic starting package with fire detection		M	M	C	
1130		*Vent and drains		M	M	C	Mitsubishi Power Aero to provide waste drain tank at each site for each unit. Freeze protection for tank and hoses from Power Trailer to tank are in customer scope.
1132		* High Pressure Water Mist Fire Suppression System for gas turbine/power turbine section of Power Trailer Only.		M	M	C	Suppressant bottles supplied in separate enclosure by Mitsubishi Power Aero. ATEX rated fire system components. Bottles shipped purged. Filling of bottles on site by customer.
1133		*Gas Turbine Lube oil System					
1134		** Single oil-to-air cooler		M	M		
1136		** Motor driven pumps		M	M		One AC; One DC
1138		** Stainless steel piping		M	M		
1140		Generator Section of Power Trailer		M	M		
1142		*Quick Disconnect Electrical Interface		M	M	C	Installed on generator junction boxes in the field.
1144		*Interior AC/DC lighting		M	M		
1146		*Inlet air filter		M	M		
1148		*Fire detection system		M	M		No suppression.
1149		*Brush Open Ventilated Air Cooled Synchronous Generator or equivalent		M	M	C	<b>Brush 62-170 rated for 11.5kW, 50HZ</b>
1152		** Brushless Exciter Assembly		M	M		With pilot exciter
1154		** Stator Heaters		M	M		
1156		** Neutral ground transformer/resistor		M	M		
1158		** Current transformers		M	M		Quantity 2 sets of 3CT's per neutral
1160		** Stator RTD's		M	M		Quantity 6 with 6 spares per package
1162		** Vibration probes		M	M		Proximity
1164		** Bearing drain RTD's		M	M		One per bearing
1166		** Bearing metal RTD's		M	M		One per bearing
1168		** Hot and cold air RTD's		M	M		
1170		** Rotor ground detection		M	M		
1172		*Generator Lube Oil System		M	M	C	Air cooled. Must be re-installed in field after generator installation.
1174		** Simplex filters		M	M		
1176		** Oil pumps		M	M		One Shaft Driven; One DC Motor Driven
1178		** Air/Oil heat exchanger with fan		M	M		
1180		** Stainless steel piping downstream of filters		M	M		
1200		<b>Exterior Enclosures to Power Trailer</b>	2	M	M	C	
1202		Two-stage inlet air filter with weather protection	2	M	M	C	1st stage prefilter, 2nd stage high-efficiency media. Prime painted. Filtration per EN DIN 779 F8 Rating (MERV14)
1204		Gas Turbine Inlet Silencing	2	M	M	C	One 1.2 m (4 ft.) inlet section included. Prime Painted
1206		Gas Turbine Exhaust Stack	2	M	M	C	Top of exhaust stack 10.36 m (33.8ft) above grade consisting of: (1) transition piece and (2) exhaust silencing sections. Painted with High temperature top coat
1210		Generator Exhaust Silencing	2	M	M	C	Finish Painted
1212		Gas Turbine Oil Mist eliminator	2	M	M	C	Prime Painted
1214		Generator Oil Mist eliminator	2	M	M	C	Prime Painted
1300		<b>Auxiliary Skids</b>		M	M	C	Finish Painted
1302		<b>Gas Metering Skid</b>	2	M	M	C	Aux Skid included
1304		* Gas Fire Valve		M	M		
1306		* Gas fuel flowmeter		M	M		
1308		* Last Chance Filter		M	M		
1310		<b>Liquid Metering Skid</b>	2	M	M	C	Aux Skid included
1312		* Liquid Fire Valve		M	M		

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 ECCN: EAR99

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1314		* Liquid fuel flowmeter		M	M		
1316		* Duplex last chance liquid fuel filters		M	M		
1318		<b>Liquid Fuel Forwarding Skid</b>	2	M	M	C	Aux Skid included
1320		* Simplex pump/motor		M	M		
1322		* Location by customer - subject to pressure drop restriction		C	C		
1324		* Piping between forwarding and filtering skid by customer		C	C		Wiring from skid to Control Trailer by customer.
1326		<b>Buffered air system (CAB)</b>	2	M	M	C	Aux Cold Air Buffer (CAB) cooler skid included.
1328		* Single air-to-air cooler		M	M		
1330		<b>Water injection NOx control system</b>	2	M	M	C	Aux WI skid included.
1332		* One AC motor driven pump		M			
1334		* Water Flow Meter		M			
1336		* Inlet Filter		M			
1338		<b>Water wash Cart on Wheels</b>	1 per site	M	M	C	(1) Water Wash cart included for the project (not per unit).
1340		<b>Fire System - Water Mist Bottle Rack Enclosure</b>	2	M	M	C	
1342		<b>Drain tank</b>	2	M	M	C	(1) Drain tank to be supplied with each unit
1344		* Double walled tank		M	M	C	
1346		* Equipped with high and high/high level sensor		M	M	C	
1348		* Interconnect piping and wiring and I/O for tank signal		M	M	C	
2000	II.	<b>CONTROL TRAILER</b>	2	M	M	C	<b>Finish Painted Prewired and factory tested. Final checkout and commissioning required in the field. Dual Frequency Rated. Customer must install some non dual rated hardware in the field if operating frequency changed.</b>
2100		<b>CONTROL PACKAGE</b>	2	M	M	C	
2102		*Heating & Air Conditioning Module (HVAC)		M	M		Dust proof Rated
2104		*Interior AC/DC lighting		M	M		
2108		*AC power outlets		M	M		
2110		*Smoke detection		M	M		
2112		*Operator Control Cabinet		M	M		
2114		** Lockout & Speed controls		M	M		Manual and automatic
2116		** Speed indication		M	M		
2118		** Voltmeters		M	M		Bus and generator
2120		** Wattmeter		M	M		
2122		** VAR meter		M	M		
2124		** Synchroscope and lamps		M	M		
2126		** Timer Panel		M	M		
2128		*Monitoring Cabinet		M	M		
2130		** Human Machine Interface (HMI) Interface		M	M		Monitor, keyboard, mouse and software (CITECT) for operator interface.
2132		** Network Switch		M	M		
2134		** Printer		M	M		
2136		** Inverter		M	M		Inverter for Monitor backup power.
2138		*Instrument Cabinet		M	M		
2140		** Generator Protective Relay		M	M		One Beckwith 3425A, in accordance with IEEE C37.102-1995.
2142		** Automatic voltage regulator		M	M		Auto follower and trip to standby, A32 AVR
2144		** Digital synchronizer		M	M		For synchronizing across generator breaker only
2146		** Vibration monitor		M	M		For Gas Turbine and Generator
2148		** Aux Transformer Protection		M	M		
2150		*Fire Protection Cabinet		M	M		With separate backup power supply.
2152		*Master Terminal Cabinet # 1 & # 2		M	M		
2154		** Woodward Control System		M	M		
2156		** Field Termination Modules		M	M		For interface between control System & field devices via quick disconnect connectors.
2158		*Protective Relay Cabinet		M	M		
2160		** Lockout relays		M	M		
2162		** Watt hour meter		M	M		
2164		** Dead Bus Relay		M	M		
2166		** Synch Check Relay		M	M		
2168		*Motor Control Center (MCC)		M	M		Per UL 891, panel board switchboard.
2170		** AC and DC distribution panels		M	M		
2172		** Motor starters		M	M		
2174		** Distribution transformer		M	M		
2176		** Breakers as required		M	M		
2179		Automatic Transfer Switch		M	M		To accommodate a Black Start Diesel Generator or alternate Emergency Feed
2182		** Field termination blocks		M	M		
2184		*Rack mounted valve regulated lead acid batteries		M	M		24 VDC and 125 VDC
2186		*Battery chargers		M	M		One 24VDC; One 125VDC
2188		*Switchgear module 15KV Class		M	M		
2190		** Metal clad switchgear compartment		M	M		Metal-clad Switchgear with vacuum circuit breaker is designed to comply with ANSI Standard C37.20.2 and the portions of NEMA Standard SG-5 applying to metal-clad switchgear.
2192		** Circuit breaker		M	M		2000 Amp/ 50kA, 15kV class Totally enclosed, per IEEE C37.20.7, IEEE C37.09, and C37.20.2,
2194		** Lightning arresters and surge capacitors		M	M		
2196		** Current transformers and potential transformer		M	M		In accordance with C57.13-1993
2198		** Aux transformer		M	M		
2199		Remote Monitoring System HMI	1 per unit	M	M	C	Connection to MOBILEPAC® unit with up to 750 ft (228m) of fiber cable.
3000	III.	<b>FIELD INSTALLATION HARDWARE</b>					
3101		Interconnecting piping and hoses for: Fire Suppressant, Drains, Fuel(s), water wash systems and Water Injection		M	M	C	Between Mitsubishi Power Aero supplied aux skids, Power Trailer, and Control Trailer
3102		Interconnecting Quick Disconnect electrical cables for power and signal. Per MIL-C-5015 standard.		M	M	C	Between Mitsubishi Power Aero supplied aux skids, Power Trailer, and Control Trailer. MV cables from generator to switchgear included. Hyd Start Motor is hard wired in field. Some exterior equipment removed for shipping must be hard wired in the field.

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3104		Access Stairs and Platforms for Power Trailer and Control Trailer		M	M	C	3 access points per trailer which can be configured per customer requirements at site. Platforms must be assembled in field. Customer must provide means for secure platforms to ground.
3106		Special Maintenance Tools for Installation and Removal of GG and PT shipped loose	1 per site	M	M		Per STND-173-S000B-MP.
3107		EG Install Tooling	1 per site	M	M		Per MP-S-148
3108		Standard set of hand tools		C	C		
3110		First Fill Lube Oils		M	M	C	Gas Turbine Lubrication & Hyd Start Systems are shipped pre-flushed. Generator lube system is also shipped pre-flushed.
3112		Cable Tray		M	M	C	
<b>4000</b>	<b>IV.</b>	<b>Mitsubishi Power Aero SUPPLIED SERVICES AND RESPONSIBILITIES</b>					
<b>4100</b>	<b>1</b>	<b>PROJECT MANAGEMENT, CONSTRUCTION AND COMMISSIONING SUPPORT</b>					
4102		Mitsubishi Power Aero Project Manager assigned to project to manage project execution & be single point contact for customer.			M		To be assigned after contract signing.
4104		Technical Representatives to advise Customer Supervisory Personnel during checkout, commissioning, and testing.			M		A description of the Field Service Labor provided can be found in the "Mitsubishi Power Aero Startup and Commissioning Support" document.
4106		Instruction Manuals and Plant Documentation provided: Mitsubishi Power Aero Drawing Package, Maintenance Manual, Illustrated Parts Catalog, Service Bulletins, Operating Instructions, Bill of Material			M		Documents provided in electronic PDF format for Mitsubishi Power Aero Supplied Hardware, as specified by Mitsubishi Power Aero Customer Drawing List. The standard package is provided in English.
4108		Mitsubishi Power Aero training "Power Plant Operators & Maintenance Courses"			M		Training description can be found in the Mitsubishi Power Aero "Customer Training Document". Travel and lodging for customer's personnel not included.
					M		
<b>4200</b>	<b>2</b>	<b>PERFORMANCE TESTING SUPPORT</b>					
4202		GTG Performance Testing			M	C	The customer is responsible for providing all necessary support to install and remove all temporary instrumentation/equipment necessary for performing the acceptance test, and to calibrate all plant instrumentation/equipment. Mitsubishi Power Aero provides technical support and manages the test plan for this work. For additional information, please reference the "Factory & Field Tests" document.
4204		Emissions testing			C	C	All emissions measurements & reporting required for tuning of engines, SCR systems; all related tests required for demonstration of Mitsubishi Power Aero emissions guarantees, demonstrations for compliance with Air Permit requirements, any/all tests related to CEM systems & RATA or PEM systems, and other tests (where applicable).  All emissions measurements to performed in accordance with Mitsubishi Power Aero Emissions Quality Assurance document.  Customer to provide test protocol to Mitsubishi Power Aero 60 days prior to scheduled testing. For additional information, please reference the "Factory & Field Tests" document.
4206		Noise Testing			C		To include pre-construction and post-commissioning testing.
4208		BOP Equipment Testing			C		
4210		Fuel, Water and Chemical Supplies			C		Customer to supply all fuel, water and chemicals as required to support plant commissioning.
4212		All Labor for complete Checkout, Testing, and Start-up of all Mitsubishi Power Aero and non-Mitsubishi Power Aero supplied equipment and material.			C		
4214		Operators for Commissioning			C		Qualified operators to work under direction of Mitsubishi Power Aero and BOP field personnel to carry out operations.
4216		Consumable Material for BOP Equipment			C		As required for commissioning
4218		Disposal of Waste Collected in GTG Drain System			C		Water, oil, soil, sands, detergents, etc. in accordance with federal, state and local regulations.
<b>4300</b>	<b>3</b>	<b>TRANSPORTATION / HANDLING</b>					
		Transportation for all Mitsubishi Power Aero equipment supplied.			C		<b>Delivery of Mitsubishi Power Aero equipment will be EXW (EX Works) Seller's designated facility &amp; FCA (Free Carrier) Seller's Suppliers designated facility for the Electric Generator, per INCOTERMS 2020, with delivery to US Port.</b>
4302		Indirect/Miscellaneous Costs			C		
4308		* Insurance					
4310		* Documentation for all insurance claims					
<b>4400</b>	<b>4</b>	<b>ENVIRONMENTAL, HEALTH &amp; SAFETY</b>					
4402		Site Environment			C		Provide a safe working environment that meets or exceeds international standards including: OSHA, and all applicable local, regional, and national standard and regulations. If at any time Mitsubishi Power Aero personnel and sub-contractors do not feel safe they may leave site.
4404		Provision of First Aid and Medical Services			C		OSHA Approved or equivalent
<b>5000</b>	<b>V.</b>	<b>OWNER SUPPLIED SERVICES AND RESPONSIBILITIES</b>					<b>Owner is responsible for compliance with Mitsubishi Power Aero's operating, installation, and maintenance instructions. Warranty is contingent upon compliance.</b>
<b>5100</b>	<b>1</b>	<b>PROJECT AND SITE DEVELOPMENT</b>					<b>Owner is responsible for all areas of site development and are not limited to the items listed in this document.</b>
5102		Adequate Title and Interest, Permanent Facility Permits, Construction Permits and Licensing			C		To permit the installation of such units and their operation for at least the period contemplated by the contract. Provide Mitsubishi Power Aero representatives unrestricted access at all times as may be reasonably necessary in the performance of their duties.
5104		Sub-Soil Investigation & Report			C	C	As required for semi-permanent site.
5106		Foundations for all Equipment			C	C	Site prep, leveling and compaction to meet Mitsubishi Power Aero requirements. Steel leveling plates (if necessary) by Customer.

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5110		SAFETY PROVISION, Provide a safe working environment that meets or exceeds international standards including: OSHA, and all applicable local, regional, and national standard and regulations.			C	C	
5112		Provision of First Aid and Medical Services - OSHA			C	C	
5114		Provisions of Local Communication Facilities			C	C	Including radio, telephone (local and long distance) with international direct dialing. This should be a minimum of 1 dedicated line in the Mitsubishi Power Aero field office. It is also recommended that a separate dedicated phone line be provided to each turbine control system in the CONTROL TRAILER.
5116		Temporary Construction Staging & Secure Inventory Area			C		A minimum area of approximately 50' by 115' is recommended directly next to each Power Island.
5118		Access Road(s), Interior Roads, and Parking Areas			C	C	All-weather and unobstructed
5120		Transmission System, Main step Up Transformer & protection for same.			C	C	Including interconnection to Mitsubishi Power Aero supplied equipment.
5200		<b>2 ENGINEERING AND CONSTRUCTION</b>					
5202		Plant Engineering			C		
5204		All Supervision and Craft Labor for complete off-loading, Inventory, Inventory control, Storage, Erection, Installation, Checkout, Testing, and Start-up & Operation of all Mitsubishi Power Aero and non-Mitsubishi Power Aero supplied equipment and material. Services to dispose of waste generated on site.			C		Scheduling all works and work hours on site and directing all craft labor. Mitsubishi Power Aero personnel to act in advisory capacity to customer site management.
5206		Maintaining and Guarding all Facilities, Equipment, and Materials during construction for working and living accommodations.			C		On site, behind the customer fence, with security.
5208		Site Organization During Construction			C		Including Resident Field Construction Manager; Supervision & Manpower for Erection Works, Checkout, Trouble Shooting, Start-up & Commissioning, Test Operation & Trial Operation, Plant Start-Up Engineering
5210		Worker's Compensation, Employer's Liability, or any other Local Insurance Required			C		Mitsubishi Power Aero will cover all Mitsubishi Power Aero personnel.
5212		Consumable Material for Erection Works			C		As required
5214		Construction Equipment, Tools and Aids			C		Including but not limited to the following: Cranes of varying capacities, Power Generators, Air Compressors, Welders, Pipe Working Facilities & all hand tools required for expeditiously and competently completing all phases of the work under the contract.
5216		Required Tests Prior to Startup. Including but not limited to:			C		
5218		* Resistance ratio and polarity tests			C		Generator and Transformer CTs and PTs
5220		* All high voltage dielectric tests			C		The Mitsubishi Power Aero Commissioning and Checkout Manual further clarifies the Customers responsibilities.
5222		* Field check and calibration of components			C		
5224		Phasing and Synchronizing the Generator to Purchaser's system			C		
5224		Transmission System Study			C		
5226		<b>Codes and Regulations:</b>					
5228		Definition of all Local/Regional legal and code requirements			C		Customer is responsible for identifying all legal codes and requirements that must be met for installation at the defined location. Mitsubishi Power Aero shall have no responsibility or liability for same.
5230		Gap analysis between the customer defined legal requirements, and the as-sold scope of supply, defined in the agreement.			C		It is the responsibility of the customer to identify and define any and all modifications from the PW Power Systems hardware, as defined in this Agreement and Scope of Supply.
5232		Modifications to meet local/regional codes and requirements.			C		The customer is responsible for the full burden of any modifications needed to meet local codes, regulations, and legal requirements. Mitsubishi Power Aero shall have no responsibility or liability for same.
5300		<b>3 INTERFACE REQUIREMENTS AND RESPONSIBILITIES</b>					
5301		High voltage Power, no GSU.					At stabs under switchgear compartment in Control Enclosure - terminated by customer.
5302		BOP Motor Control Centers			C		Any MCCs required to operate BOP equipment including breakers and load.
5304		BOP Control System			C		Separate control system for all BOP equipment in BOP trailer.
5306		Control System Interface			C		All-interconnecting hardware, software and documentation for all BOP I/O communication and control.
5308		Liquid Fuel for Start-up Testing, and Operation, 30-75 psig (2.0-5.1 bar) Approximately 36 gpm (136 l/min) per gas turbine			C		Interface Point: Flange on liquid fuel supply. Per Mitsubishi Power Aero Liquid Fuel Specification FR-1. Fuel to be tested by a certified lab and the results provided to Mitsubishi Power Aero prior to start-up.
5310		Natural Gas for Start-up, Testing and Operation, 445 psig (30 bar), Approximately 4700 scfm (2.2 m3/sec) per gas turbine			C		Interface Point: Flange on gas fuel line. Per Mitsubishi Power Aero Natural Gas Fuel Specification FR-2. Fuel to be tested by a certified lab and the results provided to Mitsubishi Power Aero prior to start-up.
5312		Demin Water. Connection at each water injection skid flange. Injection Water for NOx Control 35-75 psig (2-5 bar), Approximately 25 gpm (115 liters/min) per gas turbine			C		Interface Point: Flange on water injection supply. Per Mitsubishi Power Aero Specification AR-1. Water to be tested by a certified lab and the results provided to Mitsubishi Power Aero prior to start-up.
5314		Potable Water for Gas Turbine Off-line Water Wash 50 psig (3.4 bar) min., Approximately 300 gallons (1150 liters) per gas turbine water wash at 35 gpm (136 liters/m) and centrifuge.			C		Interface Point: Water wash header located on outside of Power Trailer. Per Mitsubishi Power Aero Potable Water Quality Specification
5316		Vent and Drain. Maximum flow on Oily Waste drain is 35 GPM for water wash.			C		Interface Point: Mitsubishi Power Aero Drain Pipe on bottom of trailer, BOP drains, and connection on drain of centrifuge.
5318		Backfed Electrical Power Supply 150 kW per MOBILEPAC® unit, 400v 50 Hz 3 phase for lighting, heating and intermittent auxiliaries.			C		When not operating on Backfeed from Aux Transformer supplied as part of Control Trailer. Any BOP loads are in addition to this.
5322		Instrument Muscle Air. Interface point: Hose connection on Mitsubishi Power Aero Power Trailer.			C		Instrumentation Air. 30 CFM Free, Dry Air at 50-90 psig.

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5324		Construction Power-Including distribution to the Mitsubishi Power Aero supplied equipment.				C	400 V, 50 Hz 3 phase, 24 hours per day to electric generator upon arrival of the generator. Same reliable temporary power at the control house for checkout and start-up at least 21 days prior to the first fire date of the first unit to be commissioned.
5326		Electrical ground grid interconnections. Grounding pads are provided by Mitsubishi Power Aero on each trailer and aux skid.				C	Customer to provide adequate ground grid and cable, lug, etc. required to make interconnection.
5328		Winds and Seismic capabilities - standard package				C	PER UBC 1997 100 MPH wind: exposure C, importance factor 1.15 Design seismic accelerations 0.3G
5400	4	<b>OTHER RESPONSIBILITIES</b>					The following list of items is provided for reference and gives examples of the types of equipment and/or services that are outside the Mitsubishi Power Aero Scope of work, and if required, are the sole responsibility of the Owner.
5402		Site Survey/Plot Plan		C	C	C	
5404		Excavation for Foundations, Pipes, Roads, Cabling & Grounding Grid		C	C	C	
5406		Site Leveling		C	C	C	
5408		Backfill		C	C	C	
5410		Finish Grading		C	C	C	
5412		Foundation embedded material		C	C	C	Mitsubishi Power Aero does not supply hardware for securing Mitsubishi Power Aero Aux Skids or Platforms to foundation if provided.
5414		Surface Drainage to and including any Collection Pond		C	C	C	
5416		Oily Water Separator		C	C	C	
5418		Sanitary Waste Disposal		C	C	C	
5420		BOP and Plant Fire Protection Systems-Hydrants Panels and Extinguishers				C	Including Fire Protection during construction
5422		Fire System Test as required by local codes				C	
5424		Temporary Power				C	
5426		Plant Lighting				C	
5428		Intra-communication system				C	
5430		Site Fencing and Gates				C	Includes security for equipment and site personnel
5432		Construction Water				C	
5434		Builder's All Risk Insurance (BAR)				C	
5436		Letter of Credit				C	As required.
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