NES / WES Energy Systems

TRAINING PROTOCOL

Purpose: To provide an outline of the material and training topics to be covered during operational and maintenance training of operator personnel.

DAY 1	
1. Review of submittal book information	
1.1 Review all data sheets, catalog cuts, drawings and specifications in the submittal book	(1 hour)
1.2 Review and instruction on using GEJ and associated equipment electrical wiring diagrams	(2 hours)
1.3 Review of the GEJ P&ID drawing and trace out system	(1 hour)
1.4 Review of radiator components	
1.41 Review of Radiator Maintenance Manual,	(0.5 hours)
1.42 Review of control system, drawings	(0.5 hours)
1.43 Review of changing set points and parameters on Watlow temperature controller	(0.5 hours)
1.5 Review of Technical Parameters and Controls	
1.5.1 Review of <i>DiANE XT</i> Parameters	(1.5 hours)
1.5.2 Review of Radiator and Fan Control Panel Parameters	(0.5 hours)
DAY 2	
2. Review of GEJ Maintenance Manual	
2.1 Review of Work Orders and Work Order Schedule	(1 hour)
2.2 Starting and stopping of the equipment (Normal Operating Conditions)	(1 hour)
2.3 Troubleshooting no start and hard start conditions	(1 hour)
2.4 Manual vs Automatic Start Processes	(0.5 hour)
2.5 Practical Application Review of Work Orders	
2.5.1 Valve lash, recession measurement, and recording of data in the log book.	(3.5 hours)
2.5.2 Ignition coil testing, spark plug gapping, cleaning, and recording of data in the log book.	(2 hours)
2.5.3 Lube oil sampling, oil changing, changing of oil filters,	(2 hours)
2.5.4 Gas and air filter changing	(1 hours)
2.5.5 Battery and battery charger maintenance	(0.5 hour)
2.5.6 Cooling system inspections, maintenance, sampling	(0.5 hour)
DAY 3	
3. Review of GE parts manual	
3.1 How to order parts	(0.5 hour)
3.2 Parts in Electrical Wiring Drawings	(0.5 hour)
3.3 Walk through of equipment to identify parts on the engine and scope of supply	(1 hour)
4. Review of Description Book	
4.1 Review of Technical Specification of Control	(1 hour)
4.2 Review <i>Diane XT</i> Literature	(1 hour)
4.3 Review of Alarms and Messages, Troubleshooting Guide	(1 hour)
4.4 Troubleshooting	(2 hours)
4.5 Review of Engine Diagrams	(1 hour)
4.6 Review of GE Technical Instructions	(1 hour)
DAY 4	
6 Practical Review of Wiring Schematics	(2 hours)
7 Practical Training on <i>Diane XT</i>	(2 hours)
8 Summation, question period	(4 hours)