

Fermi Mod/50.59 Inspection – 2009

The following updated list has the Team's final document selection. Please provide the supporting documents identified below (paper copies) and a copy of system drawings (P&IDs – paper copy D-size if not otherwise specified) for the teams use at the on-site review location by start of the inspection (June 1, 2009). Please provide a copy of the documents identified in Section II(2) of the NRC request letter dated February 26, 2009 (i.e. current UFSAR, Original FSAR, QA Plan, etc) at the review location. Additionally, provide a copy of the Technical Requirements Manual and the Design Basis Documents for the system affected by the modifications selected (if one has been issued).

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
		Safety Evaluations		
SE	08-235	HYDROGEN WATER CHEMISTRY FLOW IMPROVEMENT	1) Drawings M-2013 & M-2017-1 2) SOP 23.143, Rev 26 & CSCCD-P73P600, Rev 4 3) SE 95-0024, Rev. 1, dated 10-17-95. 4) GE letter to Fermi Station (Ref: MJM-DEC-KH1-08-076) stipulating that Fermi 2 was authorized to increase feedwater H2 concentrations to 2.5 ppm for up to 3 months. 5) Plots of H2 levels in the feedwater over past operating cycle. 6) Identify any non-GE fuel used during past operating cycle and provide vendor analysis for elevated (>2ppm) H2 levels for this fuel. 7) Identify the actual main steam radiation levels due to increase in H2 levels (e.g. provide before and after surveys). If the increase is above the 6-8 percent increase predicted provide the evaluation and affect on plant operations. 8) Provide the evaluation of increased hydrogen on RCS oxide films and crud buildup.	Holmberg
SE	08-041	INSTALL UNDER FREQUENCY TRIP RELAYING ON MAIN TURBINE GENERATOR	Same Documents as for EDP – 34102.	Munir
SE	08-279	INSTALL MECHANICAL CLAMPS TO SECURE AHC COVER	No additional docs at this time.	Holmberg

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
		Design Changes		
EDP	35866	HYDROGEN WATER CHEMISTRY FLOW IMPROVEMENT	<p>1) EPRI NP-5283-SR-A, "Guidelines for Permanent BWR Hydrogen Water Chemistry Installations," 1987 Revision.</p> <p>2) Specification for hydrogen recombiner identifying the max design hydrogen and oxygen flowrates and actual measured H2 and O2 flowrates after modification with plant at power.</p> <p>3) 1 week of temperature readings for the hydrogen recombiner temperatures before and after installation of this modification with the plant at power.</p> <p>4) CARD 08-24895 (OE27774)</p> <p>5) Provide document for explaining operation of the O2 supply including the function of the removed check valve N6200F330 (e.g. operator training materials would be sufficient).</p>	Holmberg
EDP	35798	INSTALL MECHANICAL CLAMPS TO SECURE ZERO DEGREE ACCESS HOLE COVER	<p>1) Drawing E-232-901 (size D) (Lower Vessel Shell Assembly, Machining and Welding).</p> <p>2) Drawing E-232-921 (size D) (Shroud Support, Details and Assembly).</p> <p>3) CARD 07-26611 and pictures/sketches detailing the extent of cracking.</p> <p>4) ASME Section XI, 1989 Edition with 92 addenda.</p> <p>5) Provide the reanalysis of the shroud support plate completed to support installation of the four ¾ inch partial depth machine-threaded holes for the AHC cover bolts. If no analysis was completed explain.</p> <p>6) Copy of the completed work order which installed this modification including all nondestructive test reports associated with installation.</p> <p>7) Hard copy of drawings contained in EDP 35798 (size D)</p> <p>8) Provide the frequency of retorquing of the new bolts to confirm preload or provide the analysis which demonstrates bolt material will not be reduced (e.g. relax) over the design life of this modification.</p> <p>9) Identify/provide NDE records on the machined threads cut into the core support</p>	Holmberg

			plate for this mod. If none explain how this meets the construction Code for the core support plate. 10) Provide Certified Material Test Records (CMTRs) for new bolt and clamp materials installed.	
EDP	35365	INSTALLATION OF PLUG IN SRV B2104F013M DISCHARGE PIPE TO REPAIR A SMALL HOLE	1) Provide a copy of the pre and post repair NDE conducted on these repairs. 2) Provide ASME Section XI repair replacement plan and NIS-1 and NIS-2 forms associated with this repair. 3) Certified Material Test Report for plug material used.	Holmberg

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
		Design Changes		
EDP	34102	INST UNDER FREQUENCY TRIP RELAYING ON MAIN TURBINE GENERATOR	1) Card 04-20758, 05-24072, 08-25664, 2) Schematics I-2339-02 , I-2339-03, 3) Vendor Manual for Basler BEI-81 O/U	Munir
EDP	34482	Replace CPTs for EDG 11 & 12 Service Water Pumps	1) Card 06-25253, 2) Schematic I-N-2711-08, 3) Calc DC-5349, Vol I	Munir
EDP	35241	Modify EDG to Reduce Governor Temperature	1) Card 07-21134, 2) Vendor Manual VME8-2.1,	Munir
EDP	35953	Set Point Change for 4160 Bus Low Voltage Alarm	1) Calc DC-0919 Vol I 2) Drawings I-2014-18, I-2578-09, 3) Card 07-24286	Munir

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
		Design Changes		
EDP	33934	PROVIDE BACK UP NITROGEN BOTTLES TO DIVISION II SRVS	1) CARDS 05-24200 and 04-20325. 2) Training materials that describe the operation of the Primary Containment Pneumatic Supply System (PCPS) System, Non-Interruptible Air Supply (NIAS), Nitrogen Inerting System (NIS) updated to reflect the installation of this backup N2 supply system. 3) Provide your IST program testing requirements and frequency for check valve T4901F609 and latest completed IST functional and leakage tests. 4) Completed copy of all post modification tests. 5) Drawings –D size of all modified piping systems. 6) Procedure containing normal valve lineup. 7) All operating procedures affected by installation of this new system.	Feliz-Adorno
EDP	33703	EECW PUMP AND MOTOR REPLACEMENT	1) DC-5806 Vol. I - EECW Design Basis Requirements Calculation 2) DC-6033 VOL II DCD - EECW System - Balanced Flows and Deliverable Flows 3) DC-6024 Vol IA: Calculation DC-6024 is a hydraulic transient analysis of Division I of Emergency Equipment Cooling Water (EECW) system. 4) DC-6033 Vol. V DCD, EECW System Calibrated Hydraulic Model and Deliverable Flows 5) Provide calculations/evaluations for increased EDG bus loading due to pump motor change out (DC-5003 Vol. I). 6) Provide completed copies of all post modification acceptance tests for these pumps. 7) Vendor technical manuals for EECW pump & pump motors including specifications for starting and running currents (include original motor specs also). 8) Vendor/Component drawings for EECW pump and new motor (size E).	Feliz-Adorno
EDP	33410	MAXIMUM ACCEPTABLE	1) Calcs, DC-5719 Vol I, DC-2712 Vol I And 021-014-AWI.	Feliz-Adorno

		STROKE TIME FOR E4150F003	2) If not provided above, the calculation demonstrating the maximum thrust and stress on valve components if limit switch fails and valve is driven into seat. 3) Vendor technical manuals for affected valve and actuator. 4) Vendor/Component drawings for affected valve and actuator(size E). 5) Provide completed copies of all valve post modification tests.	
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Doc Type	Number	Title	Supporting Documents	Inspector Assigned
Safety Screenings				
SCRN	07-0206	UPDATE OF THE UFSAR TO REFLECT THE CYCLE 13 RELOAD DESIGN	<p>1) Cycle 13 Supplemental Reload Licensing Report</p> <p>2) Cycle 13 Fuel Bundle Information Report and Bundle Design Reports NEDE-2401 1, GESTAR-II</p> <p>3) GE14 Fuel Design Cycle Independent Analyses for Fermi Unit 2, GE-NE-0000-0025- 3282-00, November 2004</p> <p>4) Enrico Fermi 2 SAFER/GESTR Loss-of-Coolant Accident Analysis for GEI I Fuel, GENE-0000-0047-1716-RO, December 2005</p> <p>5) BSP Stability Evaluation for Fermi 2 Cycle 13, GE-NE-0000-0066-4165-RO, June 2007</p> <p>6) TRACGO4 DIVOM IOCFR50.59 Evaluation Basis, GE-NE-0000-0052-5690-R0, April 2006</p> <p>7) General Electric Co. "General Electric Standard Application for Reactor Fuel, GESTAR-II," NEDE-24011-P-A, (Latest Approved Revision as identified in the COLR).</p> <p>8) H. E. Williamson and D. C. Ditamore, Current State of Knowledge of High Performance BWR Zircaloy Clad UO2 Fuel, NEDO-10173, General Electric Company, May 1970.</p> <p>9) H. E. Williamson and D. C. Ditamore, Experience With BWR Fuel Through September 1971, NEDO-10505, General Electric Company, May 1972.</p> <p>10) Identify if any non-GE fuel was used for Cycle 13 and if so, how this fuel performance was evaluated.</p>	Holmberg
SCRN	07-0241	REPLACE RPV HEAD VENT LINE VLVS B2100F001 & 002 &	1) Drawings (E-size) – Piping Isometric, Piping run P&ID type and piping ISI boundary.	Holmberg

		CHANGE ADJECENT PIPING MATER FROM STAIN STEEL	2) Replacement and Original Valve vendor drawings (E-size). 2) Completed post modification test records. 3) Certified material test report for new pipe and valves. 4) DC-2668 Vol V DCD Rev. 0: Pipe stress calculation.	
SCRN	07-249	INSTALLATION OF PLUG IN SRV (B2104F013M) DISCHARGE PIPE TO REPAIR A SMALL HOLE	1) CARD 07-26015	Holmberg
SCRN	08-161	UFSAR SECTION 8 CHANGES FOR CARD 08-21017	1) CARD 08-20986 2) CARD 08-21017 3) Copies of pre and post UFSAR Sections changed. 4) Vendor drawing 6E721M 0001 (Edison file E4-557) and is a plan view of the 345kV switchyard (E-size).	Holmberg
SCRN	08-254	GE RPV PRESSURE/TEMPERATURE CURVE REPORT POSTING	1) Technical Evaluation TE-B 11-08-074) 2) BWRVIP-135 Rev. 1 3) General Electric Report NEDC-33133P, Rev. 0; DECo File R1-7698)	Holmberg
SCRN	09-0006	RELOCATE VENT LINE ON DIVISION 1 CORE SPRAY INJECTION LINE	1) Drawings (E-size) – Piping Isometric, Piping run P&ID type and piping ISI boundary. 2) Replacement and Original Valve vendor drawings (E-size). 2) Completed post modification test records. 3) Certified material test report for new pipe and valves. 4) DC-2021 Vol I DCD 1, Rev. 0 stress analysis of the 3/4" Core Spray piping due to this modification.	Holmberg

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
		Safety Screenings		
SCRN	08-0238	Increasing Div II Bus Low Voltage Alarm	Same Documents As for EDP 35953	Munir
SCRN	08-0215	Under Voltage Relay Set Points	1) Calc DC-0919 Vol. I 2) Card 08-24997 3) 07-24286-16	Munir
SCRN	08-0169	EDP 35621 Degraded Voltage Improvements	NRC Back Fit Order NRC-08-0049 2) EDP-35621 (just the body of the mod package)	Munir
SCRN	07-0328	DC Control Cable Voltage Drop Calc	1) Calc DC-5352 Vol. I (affected portion) 2) Calc DC-0213, Vol. I 3) Card 07-23877	Munir
SCRN	07-0283	AC Control Cable Voltage Drop Calc	1) Calc DC-5349 Vol. I 2) Card 06-25253	Munir
SCRN	07-0225	MCC Starter Control Circuit Changes for MOVs	1) EDP 35305 (just the body of the mod package) 2) Schematics for Valves E1150F015A, E1150F017A, E1150F017B	Munir

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
		Safety Screenings		
SCRN	07-0182	HIGH RPV WATER LEVEL	1) CARD 08-20924. 2) CARD 07-21891	Feliz-Adorno
SCRN	07-0272	REVISE HPCI DESIGN HEAD/FLOW REQUIREMENT AND IST CRITERIA BASIS	1)CARD 07-23851 2) NRC SER for license amendment #123 3) NEDC-32788PINEDC-32789P 4) GHNE-0000-0075-7779-RO 5) DC-6373 VOL I -develops IST acceptance criteria. 6) DC-6371 which calculates the control tolerance of the speed governor loop. 6) Latest completed copy of 24.202.01 HPCI operability test. 7) NUREG 1482. 8) generic BWR study NEDC-24222.	Feliz-Adorno
SCRN	07-0330	RHR PUMP SEAL COOLER PERFORMANCE	1) CARDS 06-20777, 03-11894, 01-13045 2) RHR seal cooler, cyclone separator, in-line orifices and pump vendor manuals and drawings (D-size). 3) Latest completed tests documents which measured flow to the RHR seal coolers. 4) Provide document which identifies accuracy of instruments used to measure cooling flow to RHR pump seal coolers. 5) DTC: TRVEND, DSN: GENE 0000 022 8680 00. RHR & CS High Temperature Seal Operation Report, 11/15/03, DECO file RI-7650 6) Crane Technical paper #410, Flow of Fluid Through Valves, Fittings, and Pipe 7) DC-6033 vol 1, rev. A, EECW System Calibrated Hydraulic Model and Deliverable Flows 8) 23.205, rev. 98, RHR System Operating Procedure 9) DC-5806 VOL 1, rev. B. EECW Design Requirements 10) TDPMEC, "DC-0367 Appendices", RHR System Design Calculations. 4/19/99 11) DC-6033 VOL VI DCD, rev. 0,	Feliz-Adorno

			<p>EECW System -Balanced flows and Deliverable Flows</p> <p>12) SOE 07-05 and SOE 07-06, Verification of Throttled loads for Hydraulic Model Recalibration (Division I and 2, these were post EECW pump replacement per EDP 33703)</p> <p>14) Latest completed maintenance records for cleaning/inspecting of the RHR pump seal coolers. Also, provide documents of in-plant measured thermal performance for these coolers.</p>	
SCRN	08-0190	BLACKSTART RCIC	1) CARD 08-25101	Feliz-Adorno
SCRN	09-0010	DESIGN BASIS SYSTEM PARAMETERS FOR AIR OPERATED VALVES (AOV) T4600F406 AND T4600F410	<p>1) CARD 07-22838</p> <p>2) Vendor Tech manual for these AOVs and the operators and drawings (D-size).</p> <p>3) DC-5719 VOL I</p> <p>4) DC-5487 VOL II</p> <p>5) TDVCAL 2406C</p> <p>6) DC-6292 VOL I</p> <p>7) Training Materials that explain containment venting systems.</p>	Feliz-Adorno
SCRN	09-0017	DGSW MINIMUM FLOW REQUIREMENTS	<p>1) CARDS 08-26364, 09-21008</p> <p>2) Provide past operability evaluation for periods when the DGSW minimum flow valves were not set to open with sufficient cooling flow (e.g.49% open vice 57% open).</p> <p>3) Vendor technical manuals and data which establish the minimum flow for the DGSW pumps.</p> <p>4) Vendor technical manual for DGSW min flow valve and drawings (D-size).</p> <p>5) P&ID for DGSW piping system.</p> <p>6) Training material for DGSW system.</p> <p>7) DC-0106 Vol I</p>	Feliz-Adorno

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
Corrective Action Documents and Equivalency and Applicability Determinations				
TED	100090525	ELBOW	<ol style="list-style-type: none"> 1) Site commercial grade dedication procedure applicable to this component. 2) EPRI CGI JUTG Evaluation for Compression Fittings and CARD 08-22073-04. 3) Identify each safety-related system which can/will use this fitting and where in the system it could be used. 4) For the systems identified in item 3) above identify the original system design specification including required system/tubing component tests. 5) Explain fraise "Vendor is on the CQ-ASL." Provide applicable procedures (identify applicable sections) which allow reliance on vendor tests for commercial grade dedication. 6) Provide records of exactly which vendor fittings were ordered and the vendor documentation which identifies the material received. 7) Provide the specific locations and installation documents for these fittings if any are currently installed in plant systems. 	Holmberg
TED	100096110	BEARING	<ol style="list-style-type: none"> 1) EPRI CGI BE01 2) Identify each safety-related system and component which can/will use this roller bearing and where in the component it could be used. 3) For the systems identified in item 2) above identify the original component design specification including vendor materials and required original vendor acceptance tests. 4) Provide records of which vendor bearings were ordered and the vendor documentation which identifies the material received. 5) Provide the specific locations and installation documents for these bearings if any are currently installed in plant systems and what specific bearing materials were used (e.g. 17-4 PH, type 416 SS ect). 6) Completed copies of procedure 47.000.02 "Mechanical Vibration 	Holmberg

			<p>Measurements for Trending" for each installed bearing location.</p> <p>7) Identify and provide any site records (with causes) of degraded bearings or bearing failures in safety-related applications for the past 4 years.</p> <p>8) Provide industry documents that demonstrate that vibration tests have identified incorrect bearing materials.</p>	
CA	09-21445	<p>DIFFERING OPINIONS ON CODE APPLICABILITY FOR ACCESS HOLE COVER (AHC) MODIFICATION</p>	<p>1) BWRVIP-180.</p> <p>2) Section XI repair replacement plan and NIS-1 and NIS-2 forms for this work.</p> <p>3) Provide the Section XI Category B-N-2 Core Support Structure visual inspection VT-3 and EVT-I records that documented the flaw indications.</p> <p>4) Provide document which confirms root or apparent cause of crack indications.</p> <p>5) Provide schedule of reinspection (and basis document –e.g. BWRVIP-xx) for each of the AHC welded locations based on discovery of this cracking.</p> <p>6) Preloading of the adjustment screws will be performed using pre-calibrated remote torque tools and fixtures that have been qualified to provide the schedule of torque checks to confirm preload has not been lost on these screws and provide the basis document that supports this schedule.</p> <p>7) GE NE 0000 0076 6420, Rev. 0, Access Hole Cover - Top Hat Design (0 Degree Location) Weld Flaw Evaluation for Enrico Fermi Power Station Unit 2, General Electric.</p> <p>8) XGEN-2008-113, Materials Issues Relative to the Fermi-2 Access Hole Cover Clamp, XGEN Engineering, 11/2008</p> <p>9) BWRVIP 84, BWR Vessel and Internals Project, Guidelines for Selection and Use of Materials for Repairs to BWR internals, EPRI Report TR-1 000248, October 2000.</p> <p>10) Specification 3071-558-PUR-101, Revision A, Detroit Edison Purchase Specification for Access Hole Cover Repair.</p>	Holmberg
Proc	65.000.405	<p>RESIDUAL HEAT REMOVAL</p>	<p>1) Provide latest completed copies of procedure 66.000.405.</p> <p>2) Provide CARDS or other records for</p>	Holmberg

		SERVICE WATER (RHRSW) DIV 1 RADIATION MONITOR RAD CALIBRATION & FUNC TEST	<p>any as found out-of-tolerance calibration readings for these radiation monitors identified in the past 3 applications of this procedure.</p> <p>3) Vendor technical manual for these radiation detectors.</p> <p>4) P&ID of RHRSW system (portions with Rad Monitors).</p> <p>5) Training materials for these radiation monitors.</p> <p>6) Provide the design basis documents or specifications which identify the required performance for these rad monitors.</p> <p>7) Identify any UFSAR Section which describes the functions of these monitors.</p> <p>8) Provide operator response procedures for these radiation monitor alarms (3D70 - RHR SERV H2O RADN MONITOR UPSCALE TRIP, 3D71 - RHR SERV H2O RADN MONITOR TROUBLE 3D72 - RHR SERV H2O RADN MONITOR UPSCALE.</p> <p>9)</p>	
Proc	24.137.02	MSIV/ADS SRV ACCUMULATOR CHECK VALVE TEST	<p>1) Provide latest completed copies of procedure 24.137.02.</p> <p>2) Provide the basis and description for the revision 3 change to procedure 24.137.02.</p> <p>3) Provide the basis document for the acceptance criteria identified in step 4) DC-0469 Volume I, Rev. E</p> <p>5) Basis document for acceptance criteria (0.36 psid) in step 5.9.7 procedure 24.137.02.</p> <p>6) P&IDs for MSIV/ADS SRV systems.</p> <p>7) CARDS or other documents which identify out of specification results during the last three applications procedure 24.137.02.</p> <p>8) Training materials for MSIV/ADS operation.</p>	Holmberg

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
Corrective Action Documents and Equivalency and Applicability Determinations				
CA	08-26994	Time Delay Relay Not Properly Evaluated in ERE	None at this time	Munir
CA	07-26458	Thermal Overload Heaters Fail to Meet Revised Sizing Criteria	None at this time	Munir
CA	06-25051	Inverter Failure to Initialize	None at this time	Munir
Proc	SEP-SE1-15	Site Acceptance Test of EDP-32559	None at this time	Munir
Proc	24.307.15 , Rev 51	Simultaneous ECCS Start of Four EDGs	None at this time	Munir
Proc	24.307.30	EDG 13 Fast Start followed by Load Reject	None at this time	Munir
TCRID	78162	Equivalent Replacement of UPS	None at this time	Munir
TDERE	33305	Replacement RHR Service water Pump Motor	None at this time	Munir

Doc Type	Number	Title	Supporting Documents	Inspector Assigned
Corrective Action Documents and Equivalency and Applicability Determinations				
TCRID	78162	EQUIVALENT REPLACEMENT OF CONTROL ROD DRIVE HCU SCRAM ACCUMULATOR	<ul style="list-style-type: none"> 1) ASME Section VIII Edition applicable to the original and replacement accumulators and original design specification applicable to accumulators. 2) Fabrication and post installation non-destructive examination records for the scram accumulators. 3) Identify location of each replacement scram accumulator replaced in the plant. 4) P&IDs for accumulators. 5) Vendor technical manuals both GE and NOVA specifications for accumulators and drawings (D-size). 6) ASME Section XI Code ISI boundary diagrams associated with accumulator and CRD piping systems. 7) Certified Material Records for replacement accumulator vessels. 8) CARDS 02-19552. 04-20413, 04-22516 9) 50.59 screen 05-0064 10) ASME Section XI replacement records including a Code reconciliation report or if not applicable –explain. 	Feliz-Adorno
TCTSR	36030	PERFORMANCE CRITERIA FOR DGSW MINIMUM FLOW VALVES	<ul style="list-style-type: none"> 1) Identify and provide a copy of any operating procedures which result in running the DGSW pumps deadheaded (for any length of time). 2) Identify and provide DGSW pump information which requires minimum flow and identifies effects on the pump performance without minimum flow. 3) Provide minimum flow calculation for DG demonstrating adequate SW flow with replacement min flow valves stuck open. 4) Portions of this document state that the minimum flow valve is not safety related. However, it also states that this valve has a safety-related design function of the DGSW minimum flow valve to remain closed 	Feliz-Adorno

			<p>for pump discharge pressures below 51 psig. Explain if valve is considered safety related. If so, provide ASME Code Section XI, repair replacement records and Code reconciliation reports.</p> <p>5) Provide completed post maintenance tests which demonstrate that the DGSW minimum flow valves closed at pressure greater than 51 psig.</p>	
CARD	07-27237	E5150F013, RCIC PUMP SPLY TO FEEDWATER HEADER ISO VLV WON'T STROKE FROM THE CONTROL ROOM	<p>1) Identify and provide CARDS for safety-related MOV failures or degradation at Fermi related to hardened grease in past 3 years.</p> <p>2) Provide completed records and evaluations of the inspections conducted on valves B3105F031B, E1150F009, and G3352F001 as a result of this failure.</p> <p>3) CARDS 98-22833, 00-19680, 02-21378</p> <p>4) Identify the type of grease used on this valve and provide a copy of the vendor recommended grease.</p> <p>5) Provide vendor technical manual and drawing (D-size) for this valve and actuator.</p>	Feliz-Adorno
Pro	24.020.08	HPCI TIME RESPONSE & PUMP OPERABILITY TEST AT 1025 PSI	<p>1) IST Evaluation 07-041</p> <p>2) Latest completed copy of procedure 24.020.08.</p> <p>3) CARD 99-18642</p> <p>4) PI&D drawings of HPCI system (D-size).</p> <p>5) Vendor technical Manual for HPCI pump and drawings (D-size).</p>	Feliz-Adorno