B910 EVAPORATORS STARTUP: **MASTER** ACTIONS TRACKING MATRIX

TRACKING NO.	CK LST NO.	SRC: EG&G	SRC: DOE	FINDING / OPEN ITEM DESCRIPTION	TYPE & STAT: PRE-HOT SO TEST o	TYPE & STAT: PRE-HOT SO TEST c	TYPE & STAT: PRE-OPERATIONS o	TYPE & STAT: PRE-OPERATIONS c	TYPE & STAT: POST-OPERATIONS o	TYPE & STAT: POST-OPERATIONS c	CATEG & STAT: Open Item o	CATEG & STAT: Open Item c	CATEG & STAT: Finding o	CATEG & STAT: Finding c	CATEG & STAT: Observation o	CATEG & STAT: Observation c	SCHEDULE	REQUIRED CORRECTIVE ACTION or RESPONSE	RESPONSIBILITY: ORG LEAD / Support	RESPONSIBILITY: INDIVID LEAD / Support	STATUS
1	6	X		Could not verify that all procedures, dwgs, operator aids, etc., are written, approved; control mechanisms are in place.		X						X						Verify that all procedures, dwgs, operator aids, etc., are written, approved; control mechanisms are in			CLOSED 6/11
2	9	X		Could not verify each operator is trained on chemistry/process parameters.		X						X						Complete Qual Training-- Ops training on chemistry/process parameters.			CLOSED 6/16
3	33	X		Waste characterization requirements not verified as adequate.		X						X						Complete PCP.			CLOSED 5/28
4	41	X		Flammable and combustible liquids are improperly stored.				X						X				Relocate flammable storage cabinet, east egress main floor; and east basement stairs.			CLOSED 6/30
5	43	X		Sprinkler system is not included in RFP Fire Department inspection, testing, maintenance program.				X						X				Label sprinkler system per SX-164 & submit drawing with component labels to Fire Dept. FD will then inspect.	M&PES-FPM /	AUSTIN X5119d1790 ANHOLD X5160d1247	CLOSED 7/21
6	44	X		Acceptance and testing of Proprietary Protective Signaling System is not proceduralized.		X								X				After #43 [illegible] inspection, system can be entered into schedule for periodic testing.			CLOSED 8/5
7	48	X		Proper amount and placement of fire extinguishers not verified.				X						X				Install fire extinguisher at bottom of east stairs, in basement.			CLOSED 6/30
8	49	X		Proprietary Protective Signaling System does not meet installation, mtce, & testing requirements. Work package not complete.		X								X				Verify #43.			CLOSED 6/15
9	52	X		Could not verify proper operation of fire alarms. Work package incomplete.		X								X				Verify #43.			CLOSED 6/15
10 A	58	X		Exits and egress routes not in accordance with NFPA.		X								X				Mark floor elevation change, bottom of east stairs.			CLOSED 6/10
10 B		X		Exits and egress routes not in accordance with NFPA.		X								X				Install "Exit" sign, middle isle, indicating direction to NW corner stairs from basement.			CLOSED 6/15

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11	58		# 5	TRIPPING HAZARD-- There is a tripping hazard in the basement near the bottom of the east stairs, a platform with approx six inch rise. (REF. C/L #58)				X						X				EG&G should eliminate the tripping hazard.			CLOSED 6/21 with DOE Approval
12	64	X		Could not verify that emergency responsibilities for personnel are properly defined. EPP not completed.		X						X						Verify that EPP is adequate in aspects stated. Complete Interim Ops Orders while completing EPP formal approval.			CLOSED 6/14
13	68	X		Could not verify comprehensive SO testing, planning, & control		X						X						Complete Cold Ops testing.			CLOSED 6/15
14	72	X		Could not verify marked-up dwgs reflecting as-built configuration are available in field						X		X						Complete redline/as-built drawings.			CLOSED 6/10
	76			Design control verification and FCO review-- Verification of design control compliance (SAME AS ISSUES 1 AND 2 FROM ITS DIVERSION ASSESSMENT).														VERIFY THAT ACTION PLANS DEVELOPED FOR ITS DIVERSION FINDINGS WILL ALSO ADEQUATELY ADDRESS THESE B910 ISSUES.			
15 A	76	X		Engineering Change Request (ECR) forms are not in use.		X								X				Provide plan and means of verification of systematic use of ECRs.			CLOSED 6/15
15 B	76	X		It is impossible to determine what field changes accomplish without direct discussion with the originator.		X								X				Improve/clarify documentation of field changes.			CLOSED 6/15
15 C	76	X		Affected engineering disciplines are not involved in the review process.		X								X				Provide plan and means of verification of proper discipline reviews.			CLOSED 6/15
15 D	76	X		Non-cognizant managers are approving engineering documents.		X								X				Provide plan and means of verification of approvals by cognizant managers only.			CLOSED 6/15
15 E	76	X		Vendor-provided software with known faults is being used for heat trace calculations.		X								X				Institute proper control of heat trace calcs. Provide plan and means of avoiding similar problems in the future (i.e., faulty software use).			CLOSED 6/15

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15 F	76	X		Major modifications are being performed without documented technical justifications. Example: FD #321 does not document/justify calcs used, not does it document origins of design inputs.		X								X				Provide plan and means of documenting justifications. Revise COEM FAC-23 so that it requires the same level of justification as required by the QA Manual.			CLOSED 6/15
15 G	76	X		Sketches are being used when controlled drawings are required. Example: FD#322 accomplished rewiring and labeling of leak detection system by use of sketches. This violates Engr. Dir. 91-001, ¶4.1.2.		X								X				Provide plan and means to ensure against improper use of sketches.			CLOSED 6/15
15 H	76	X		It cannot be determined if EDC documentation is complete. There are duplicate FCO numbers, while some numbers are not on file at all. Many field condition changes and design clarifications are not numbered at all.		X								X				Provide plan and means to ensure proper control of EDC documentation.			CLOSED 6/15
	79			Design control verification and FCO review -- Verification of design control compliance (SAME AS ISSUES 1 AND 2 FROM ITS DIVERSION ASSESSMENT).														VERIFY THAT ACTION PLANS DEVELOPED FOR ITS DIVERSION FINDINGS WILL ALSO ADEQUATELY ADDRESS THESE B910 ISSUES.			
16 A	79	X		Field Directives implemented by COEM FAC-23 do not require review and approval by Environmental and Waste Management, Fire Protection Engineering, or Nuclear Safety.		X								X							CLOSED 6/15
16 B	79	X		The Field Directive process is not properly implemented. The process is being abused to avoid proper design change controls.		X								X							CLOSED 6/15
16 C	79	X		Engineers are not routinely implementing the criteria of COEM FAC-23 regarding their qualifications to review and approve FDs.		X								X							CLOSED 6/15

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16 D	78	X		Quality records are not being maintained in accordance with RFP QA Manual, QR-17, QA Records.		X								X							CLOSED 6/15
17	79	X		Could not verify that effective design control system had been implemented for project construction-- Verification of design control compliance (SAME AS ITS DIVERSION ISSUES 1 AND 2).		X								X				VERIFY THAT ACTION PLANS DEVELOPED FOR ITS DIVERSION FINDINGS WILL ALSO ADEQUATELY ADDRESS THESE B910 ISSUES.			CLOSED 6/15
18	89	X		Could not verify properly installed safety shower, North side. Could not verify water temp. Could not verify Room 103 eyewash if pH requires.		X						X						Install: Safety shower, North side; Room 103 eyewash if pH requires; Industrial Hygiene verify water temp.			CLOSED 6/9
19	90	X		Could not verify that all moving equipment parts are identified and guarded.		X						X						Industrial Safety perform walk-through after all equipment installed.			CLOSED 6/14
20	91	X		Chain hoist inspection overdue; out of validation.		X						X						Verify status of hoist; LO/TO or certify/validate.			CLOSED 6/9
21	92	X		Could not verify existence of pressure safety program.				X				X						Verify satisfactory safety pressure program is in place.			CLOSED 6/14
22	93	X		Could not verify existence of emergency & hazardous waste ops program per 29 CFR 1910.120. EPP not approved.		X						X						Verify that EPP is adequate in aspects stated. Complete interim Ops Orders while completing EPP formal approval.			CLOSED 6/14
23	95	X		Could not verify that 910 org has implemented required safety programs.		X						X						Complete building-specific training to Rev. 1 of the B910 HASP.			CLOSED 6/16
24	102	X		Could not verify that monitoring data requirements are being met.				X				X						Heat stress to be evaluated by Industrial Hygiene following startup. Requires bldg. mgt. request.	IH / SPP	Krullx2183/ Ledford	CLOSED
24 A	n/a		# 3	HEAT STRESS-- Indus. Safety has a concern that heat stress may be a problem for the operators spending a considerable amount of time in the basement during periods of operations, as there is only one exhaust fan to provide ventilation. (Ref. C/L #102)				X				X						EG&G should provide evidence that heat stress will not be a problem for operators in the basement of B910.	IH / SPP	Krullx2183/ Ledford	CLOSED 7/21 with DOE Approval

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25	111	X		All construction (ladders, stairs, guardrails, fall protection) has not been completed.		X						X						Ops mgt. should request walkdown by IS following construction completion.			CLOSED 6/15
26	112	X		All construction (equipment and component labeling) has not been completed.		X						X						Ops mgt. should request walkdown by IS following construction completion.			CLOSED 6/15
27	114	X		All construction (electrical safety) per recommendation of Elect. Mtce has not been completed.		X						X						Ops mgt. should request walkdown by IS following construction completion.			CLOSED 6/15
28	120	X		Evidence of NCR system compliance, that existing NCRS, etc., are in system and being worked.				X				X						Verify that any existing NCRs are in proper closure processes/modes.			CLOSED 6/14
29	126	X		Could not verify existence of IWCP control.					X		X							Provide evidence of IWCP control, i.e., the completion of several IWCP packages.	FPM / SPP	ANHOLD x5160/1247 Ringle	
30	135	X		Could not verify Ops. and supers trained to Qual. Stds. Package		X						X						Complete Qual. Training.			CLOSED 6/16
31	144	X		Could not verify On-the-job training programs are adequate.		X						X						Complete Qual. Training.			CLOSED 6/16
32	147	X		Training materials not reviewed and approved.		X						X						Approval of JTA, OSP, OJT, classroom matls, etc.			CLOSED 5/22
33	[illegible]			[illegible] employees [illegible] not [illegible] evidence [illegible] although they have in fact received the appropriate training as evidenced by their [illegible] Checklist 334.)											X			EG&G should pass this information on to the appropriate internal organization.			
34	159	X		Could not verify that an adequate record keeping system is in place in B910 for waste transfer operations.				X				X						Verify adequate record keeping system in place in B910 for waste transfer operations.			CLOSED 6/14

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35	176	X		Could not verify plans for effective emergency response-- EPP not approved.		X						X						Verify that EPP is adequate in aspects stated. Complete interim Ops Orders while completing EPP formal approval.			CLOSED 6/14
36	192		# 7	The criteria of #192 states, "Does evidence exist that shows the 910 solar pond project is in compliance with plant sampling and analytical program/plans." The objective evidence to show compliance was several pages of the IM/IRA. The proper closure should be the comparison of the actual product water sampling plan, 22-PWSP-910-012, with the requirements contained in the IM/IRA and with plant sampling and analytical programs/plans.		X							X				EG&G should revalidate the checklist by a comparison of the PWSP to the IM/IRA and plant requirements.			CLOSED 6/10 with DOE approval
37	229	X		Could not verify that all procedures are tech. and admin. accurate				X				X						Verify all procedures are approved. [Brine transfer is only incomplete procedure.]			CLOSED 6/14
38	237	X		Could not verify that annunciator response documentation is in designated physical locations.		X						X						Verify that annunciator response documentation is in designated physical locations.			CLOSED 6/14
39	238	X		There are no proceduralized mechanisms in place, as required by COOP, to perform lamp and annunciator checks. LICON panels do not have such a mechanism.				X						X				Develop and approved procedure to ensure satisfactory operational testing for panel lights and annunciators.			CLOSED 6/14
40	258	X		Hearing conservation program-- Noise monitoring required following startup (cannot be verified prior to ops).				X				X						Ops mgt. should request monitoring by IH following startup.	IH / SPP	Krulik2123/ Ladford	CLOSED

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41	264	X		Could not verify valid instrument calibrations.		X						X						Calibrate and validate M&TE.			CLOSED 6/23
41 A	264		# 24	TESTING AND CALIBRATION OF I&C SYSTEMS-- The calibration of instrumentation for the evaporator system has not been completed.		X								X				EG&G must complete the calibration of the evaporator systems instrumentation prior to Hot SO Test start.			CLOSED 6/23 with DOE approval
42	278	X		Could not verify waste acceptance criteria		X						X						Complete PCP.			CLOSED 5/28
43	281	X		Could not verify environmental monitoring program		X						X						Complete PCP.			CLOSED 5/28
44	293	X		Could not verify cradle to grave record system		X						X						Complete PCP.			CLOSED 5/28
45	290	X		Could not verify proper operation of Condensate Surge Tank (D10) h/l alarms.			X				X							Conduct SO test of 215D product water lines.	ER / SPP	McKAIG x6531d4038/ Valencia	due 7/26/1993
46	291	X		Could not verify proper operation of Distillate Holding Tanks (215-d) h/l alarms.			X				X							Conduct SO test of 215D product water lines.	ER / SPP	McKAIG x6531d4038/ Valencia	due 7/26/1993
47	296	X		Could not verify proper operation of Tanker level sensor and alarms.			X				X							Conduct tanker level sensor and alarm testing; Perform more than component test.	ER / SPP	McKAIG x6531d4038/ Valencia	due 7/26/1993

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48	297	X		Could not verify 207A & B Leak Detection alarms functional.						X		X						Complete SO test for restoration of pond feed lines.			CLOSED - OBE
48 A	n/a		# 6	POND WATER PROCESSING-- Although the processing of pond water by B910 is not expected to be required, the capability to do so must be maintained. There are a number of tasks that would need to be accomplished to do so. Among these tasks is the preparation of the nitric acid system, the connection of the pumps to the feedlines, evaluation of the feed prefilters, secondary containment leak detection compensatory measures, etc.				X						X				EG&G is to prepare a plan, which details the tasks to be accomplished and an approximate timeline to allow for the capability of processing pond water in B910. EG&G should also re-evaluate its previous testing of the system to assure that the system will work, as designed, if and when needed.	SPP	BOYLE / London	CLOSED 7/21with DOE Approval.
49	299	X		Could not verify proper operation of Natural Gas Engine System alarms.		X						X						Conduct power overload/motor load test.			CLOSED 6/16
50	302	X		Could not verify generator units emissions controls.				X				X						Complete APEN Test Report.	CLN AIR /	GARREN x8512d4281	CLOSED 7/20
51	333	X		Could not verify proper signage installation		X						X						Post sign on south side of B910: "Danger--Unauthorized Personnel Keep Out".			CLOSED 6/8
52	342	X		Could not verify formal inspection system for building.				X				X						Establish written inspection schedule.			CLOSED 6/9
53	361	X		Support Services indicates lack of PMOs or WCFs for safety shutoff devices.				X				X						Develop adequate inspection/ maintenance of safety shutoffs, such as FV1153, FV 1163, and FV 1173	LWTO / SPP	LARSEN x2966d1954 / Valencia	CLOSED 7/15 Work Control Form issued

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54	>>		# 2	LACK OF QA DURING TESTING-- A review of the test procedure used as the objective evidence for closure of Checklists 35, 40, 288, 289, 292, & 293 indicates a lack of approval for real time procedure changes, incomplete test steps, lack of success criteria, and missing data.		X								X				EG&G will show evidence as to why such controls were not required for the performance of these tests.			CLOSED 6/16 with DOE approval
55	n/a		# 4	DRINKING WATER-- Drinking water in plastic bottles (are) stored beside the nitric acid tank.				X						X				EG&G should store the water in another location.			CLOSED 6/21 with DOE approval
56	n/a		# 5	SELF-ASSESSMENT PROCESS-- In general the self-assessment process employed by the SPRP focuses on process validation rather than process implementation. The vast majority of the checklists deals with whether or not a piece of [illegible] the prescribed review [illegible] validating [illegible]											X			EG&G should revamp the self-assessment process to focus more on process implementation rather than validating that the processes are in place.			
57	n/a		# 9	CROSS CONTAMINATION OF DOMESTIC COLD WATER WITH DISTILLATE-- (Ref. P&ID #39365-007) The distillate is connected to the domestic water line with back flow preventors. This is a potential source of contamination of the domestic water system.		X								X				A fix is already in work by EG&G. EG&G needs to complete the work specified under EO 35599 prior to Hot SO startup.			CLOSED 6/15 with DOE approval

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58	n/a		# 10	SIGHT GLASS ON EDTA DAY TANK-- EDTA tank has a high/low sensor. During startup, it will be difficult to monitor the liquid level because of large variations in EDTA requirements. A sight glass is needed to permit continuous monitoring of EDTA level.		X								X				EG&G is currently installing a sight glass on the EDTA tank under FD340. This needs to be completed prior to the Hot SO test startup.			CLOSED 6/14 with DOE approval
59	n/a		#	WATCHDOG TIMER-- The Programmable Logic Controller (PLC) provided by Licon has a Watchdog Timer, but its status is not readily available to the											X			EG&G shall provide a means to annunciate the status of the watchdog controller to the operator prior to operational status.			7/9 CHANGED TO OBSERVATION DOE
60	n/a		# 11	POWER TO THE PLC-- Power to the Licon provided PLC is provided by the unit generator. Shutdown or failure of the [illegible] or an event in the unit Power [illegible] an unknown condition [illegible] and [illegible] dependency on continuation of clean systems [illegible] to the evaporators.											X			It is recommended that EG&G install the PLC on house power and the [illegible] instruments and control circuits be placed on house power.			7/9 CHANGED TO OBSERVATION DOE
61	n/a		# 13	DOE ORDER 6430.1A COMPLIANCE-- The Licon-provided equipment does not appear to be in compliance with 6430.1A in the areas of Fail Safe Alarming, Positive Confirmation of Alarms and Alarms Testing (details are contained in the Draft HAZWRAP report).				X						X				EG&G is to: 1) Evaluate the applicability of 6430.1A to the off-the-shelf GFP Licon evaporators; 2) Evaluate the HAZWRAP concerns on their own merit and provide recommendations for their disposition. NOTE, 6/17/93: Per EG&G Engr., Fail Safe Alarming is NOT REQUIRED by 6430.1A. If this issue is part of the HAZWRAP report, it will need to be identified separately from issues related to 6430.1A.	M&PE	AUSTIN X5110/c1790	CLOSED 7/22 with DOE Approval

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62	n/a		# 14	ENGINE COOLING WATER CONTROL -- The thermal valve based on the current flection of the engine jacket cooling water must be constantly adjusted by an operator during startup.											X			EG&G is to consider retrofitting this system with an automatic system.			
63	n/a		# 15	EDTA FEED SYSTEM-- The system design does not follow the manufacturers recommended installation in that the system did not incorporate a "mixing tee." There is a concern that the system as designed will not provide a homogeneous mixture, which could cause excessive scaling. There is also a concern that if the mixture is not homogeneous, the EDTA curves that are to be generated during the Qual Testing would not be adequate.		X							X				EG&G is to evaluate the current design and provide evidence that there is sufficient mixing downstream of the EDTA injection point to mitigate the stated concerns.			CLOSED 6/15 with DOE approval
64	n/a		# 16	NITRIC ACID FEED SYSTEM-- As designed, the system does not have a cold, blocked and bleed system to prevent accidental discharge during system feeding. Also, the monitoring of acid level in the main tank could be improved by installation of a light glass. In addition, P&ID 8000-019 shows a remote flowmeter panel, "E023." The FE flow is breaking its body. It should be investigated to determine if it is suitable for the purpose intended.										X			Since the current operational plans of B910 do not call for use of the Nitric Acid System, EG&G recommends these observations not impact the current test. These items should be incorporated into the pre-engineering line item requirements DOE item 19. (See Testing No. 68A.)			

Status as of 7/23/93 -- 11:50 AM
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Attachment 1
93-RF-8966

B910 EVAPORATORS STARTUP: MASTER ACTIONS TRACKING MATRIX

TRACKING NO.	CK LST NO.	SRC EG&G	SRC DOE	FINDING / OPEN ITEM DESCRIPTION	TYPE & STAT PRE-HOT SO TEST o	TYPE & STAT PRE-HOT SO TEST c	TYPE & STAT PRE-OPERATIONS o	TYPE & STAT PRE-OPERATIONS c	TYPE & STAT POST-OPERATIONS o	TYPE & STAT POST-OPERATIONS c	CATEG & STAT Open Item o	CATEG & STAT Open Item c	CATEG & STAT Finding o	CATEG & STAT Finding c	CATEG & STAT Observation o	CATEG & STAT Observation c	SCHEDULE	REQUIRED CORRECTIVE ACTION or RESPONSE	RESPONSIBILITY ORG LEAD / Support	RESPONSIBILITY INDIVID LEAD / Support	STATUS
65	n/a		# 17	SYSTEM LEAKS-- All 3 evaporator systems have experienced numerous leaks at all types of joints and connections. Corrective actions are nearing completion. It is not certain that a leak-free system, required by regs, will be Hot SO test.		X							X				EG&G will provide a leak-free system prior to Hot SO, or provide evidence that the leaking has been minimized by providing the details of the efforts conducted to minimize the leaks; a status of the leaks within each system, including number of leaks; approximate volumes of fluid leaking; and the type (i.e., feed, distillate, or brine) of fluid leaking. EG&G will also provide a plan as to how and when it will achieve a leak-free system.			CLOSED 6/11 with DOE approval
66	n/a		# 17	PREVENTATIVE MAINTENANCE -- The performance of the MEMS traces over time indicates some evaluation. The tube cleaners could become a problem with clotting or fouling because of inadequate feed treatment. There is no provision for [illegible] the condenser tubes without removing the condenser [illegible] [illegible]											X		EG&G should consider the use of the nitric acid system for treatment of the TTS feed to help minimize maintenance due to scaling.			[illegible]
67	n/a		# 18	[illegible] CLEANING FOR OPERATIONS -- Because of the present [illegible] configuration (ref. DOE Item 16) and because there are no provisions for [illegible] or fail safe alarming (ref. DOE Item 16), each display indicator can have four possible modes: 1) normal energized state 2) normal de-energized state 3) burned-out lamp state 4) no power state											X		EG&G should [illegible] multi-[illegible] tracking of the alarms within the operations procedures and operator training.			[illegible] OBSERVATION per DOE

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B910 EVAPORATORS STARTUP: **MASTER** ACTIONS TRACKING MATRIX

TRACKING NO.	CK LST NO.	SRC EG&G	SRC DOE	FINDING / OPEN ITEM DESCRIPTION	TYPE & STAT: PRE-HOT SO TEST o	TYPE & STAT: PRE-HOT SO TEST c	TYPE & STAT: PRE-OPERATIONS o	TYPE & STAT: PRE-OPERATIONS c	TYPE & STAT: POST-OPERATIONS o	TYPE & STAT: POST-OPERATIONS c	CATEG & STAT: Open Item o	CATEG & STAT: Open Item c	CATEG & STAT: Finding o	CATEG & STAT: Finding c	CATEG & STAT: Observation o	CATEG & STAT: Observation c	SCHEDULE	REQUIRED CORRECTIVE ACTION or RESPONSE	RESPONSIBILITY: ORG LEAD / Support	RESPONSIBILITY: INDIVID LEAD / Support	RESPONSIBILITY: STATUS
68	n/a		# 20	PLC LADDER LOGIC CONFIGURATION CONTROL-- The PLC Ladder Logic has been in the hands of Licon up till now. There is at present no configuration control of the PLC Logic.					X				X					The PLC logic should be brought under EG&G configuration control.	WASTE PROJ SUPP / SPP	ORTIZ x3885d1652/ Valencia	7/22>Changed to Post-Op Must be completed by 9/9
69	n/a		# 21	PRESSURE GAUGE INSTALLATION DETAIL-- The pressure gauges for liquid service are installed above the level of the liquid lines off the vapor components of evaporators. If the units are down for a period of time, air could enter the system, requiring purging. In doing the instrumentation line-up, a line up could expose the operators and maintenance personnel to contaminants. This would require special precautions and increase maintenance time.										X					EG&G may want to install purge lines for these gauges such that they do not have to be purged into the open.			
70	n/a		# 22	SIGNET FLOW METER INSTALLATION-- The signet flow meters are mounted vertically in the Licon system. Vertical mounting reduces the accuracy of the measurements. The manufacturer recommends horizontal mounting.					X						X			This item has been discussed with EG&G operations and they have concluded that the accuracy of the measurements emanating from these flow meters does not impact efficient operation. EG&G should document the reasons why there is no impact.	LWTO / SPP	LARSEN x2966d1964 / Valencia	CLOSED 7/21 with DOE Approval.
71	n/a		# 23	MAINTENANCE POWER AND AIR SYSTEMS-- There is no backup to generator for electrical power, house electrical power, or instrument air to the evaporator system.											X			With the long start-up times involved on fertilizing the units, it may be economically advantageous to have redundant systems in place for electricity and instrument air.			
72	n/a		# 24	CABLE HAZARD-- It was noted that a pipe rack I-beam between Generator 3 and Bldg 1 is mounted so that tall persons may hit their heads.											X			EG&G should evaluate the situation and determine if it constitutes a safety hazard and, if so, take appropriate action.			

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B910 EVAPORATORS STARTUP: **MASTER** ACTIONS TRACKING MATRIX

TRACKING NO.	CK LST NO.	SRC: EG&G	SRC: DOE	FINDING / OPEN ITEM DESCRIPTION	TYPE & STAT: PRE-HOT SO TEST o	c	PRE-OPERATIONS o	c	POST-OPERATIONS o	c	CATEG & STAT: Open Item o	c	Finding o	c	Observation o	c	SCHEDULE	REQUIRED CORRECTIVE ACTION or RESPONSE	RESPONSIBILITY: ORG LEAD / Support	INDIVID LEAD / Support	STATUS
73			# 26	PROCESS QUAL PROCEDURE-- The HAZWRAP assessment team has comments on the PCP, Document No. EO 34575 (see pp. 12-14 of the draft HAZWRAP report).		X								X				EG&G shall review and incorporate or otherwise disposition the attached comments in conjunction with the RFO SRPR program office.			CLOSED 6/10 with DOE approval
74	[illegible]		# 27	FACTORS THAT WILL REDUCE THROUGHPUT-- The HAZWRAP assessment team has provided comments that could enhance the performance of the evaporators. The comments are contained in pp. 14-16 of the draft HAZWRAP report.											X			EG&G should review and evaluate the attached comments and incorporate those that are practical within the constraints of present schedules and budgets.			
75	n/a/		# 28	(See Tracking No. 61, DOE Items 13). An alarm light test sequence should be added to ensure integrity of alram lighting system.					X		X							EG&G will design and install an alarm light test system as suggested in the HAZWRAP report. (ie, A possible suggestion is to change the PLC to trigger relays that tum on lights indicating need to inspect.)	M&PE		7/22> to be entered into PATS

89	DOE>	28		
TOTAL PRE-HOT SO TEST ACTIONS	50		41	TOTAL OPEN ITEMS
		OPEN	5	OPEN
	50	CLOSED	36	CLOSED
TOTAL PRE-OPERATIONS ACTIONS	22		36	FINDINGS
	3	OPEN	1	OPEN
	19	CLOSED	35	CLOSED
TOTAL POST-OPERATIONS ACTIONS	5		12	OBSERVATIONS
	3	OPEN	11	OPEN
	2	CLOSED	1	CLOSED

TOTAL ACTIONS (not including Observations)	77	6	TOTAL OPEN
		71	TOTAL CLOSED

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