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PLANNING MEETING

0900 4/30/79

1. Agenda, 0900, 4/30/79, Task Management/Schedule Meeting
2. Review Top Priorities List
3. Review Action Items from "1800", 4/29/79, Technical Review Meeting.
4. Review Tasks Lists

Pressurize level Measurement

Heat up RTD watch  
response when RTD uncovered

Test run in tanks with  
TMR-2 conditions.

RTD @ 46" right  
above heaters. Beckman  
wants to run test

John which charcoal  
has been treated + what  
to be treated?

Not Worthwhile to run test  
but method looks good

A G E N D A

Management/Schedule Meeting  
0900 4/30/79

1. Radioactive Releases *no sig change* *1 x 10<sup>2</sup> (219)* *no water movement*  
*2 x 10<sup>-7</sup> (948)*

2. Plant Status:  
a. RCS profile

	$T_{in}$	$T_c$	DT	$T_{sym}$	Pyr level
A	150	165	15	165	280"
B	181	135	46	136	

*If we had to start a pump now how much shrink?*

b. Natural circulation consideration - heat balance  
*no change from last night.*

3. Construction Status:

- a. EPICOR (CAP-GUN II)
- b. Tank farm in Unit 2 Spent Fuel Pool *no change from last night*  
*Still have problems. Training welders*  
*→ FHB side complete the work.*
- c. Reactor Coolant Pressure/Volume Control System *going in on new schedule*
- d. Alternate Decay Heat Removal System *Working on skirt water wall Thursday.*  
*2<sup>nd</sup> skid due in soon. 4 days to set to -3"*  
*To monitor vibration now.*
- e. DHR Upgrade + recirculators in today.  
*Remove gas oil tank on B today. Shooting to run both tomorrow*
- f. Alternate system for solid circulation of OTSG's *Cut in @ 4PM.*
- g. Auxiliary Building Roof Ventilation System
- h. Diesel Generators *B will run today.*

*OTSG B*  
*all 2 pools*  
*we in by*  
*Thursday*  
*except 1 due 5/1*  
*But 5/9*

- 4. Vacuum Draw on Auxiliary Building Vent Header and Drain System. *Built rig for trying to suck down the system into filters. Also doing local recirc + filtration*
- 5. RCS Sample #6 *Working on compression today & not to suck better on Vent Header*
- 6. Containment Sump Level Indication *DHVS OK*
  - a. Failures which indicate level
  - b. Critical valves

7. Draining of "B" OTSG. *Set done ASAP slow process at best. Will start this AM.*

*Toile*  
*Should we shut off cooling water seal injection etc*  
*disable the pumps. Alt EP-32 for not circ if lost.*  
*- Do we have any concern with respect to NDT? to 70°F?*

TOP PRIORITIES

Development of plan for management of radioactivity in Auxiliary and Containment Buildings.	A-1
Identify and isolate sources of iodine leakage.	A-1
Complete tank farm in Unit 2 spent fuel pool.	A-1
Complete roof-top Stack Filtration System.	A-2
Complete contingency plan for emergency cross-tie between the Auxiliary Building and Reactor Building Filtration System.	A-2
Completion of EPICOR (CAP-GUN II) System	A-2
Development of plan for treatment of Auxiliary Building liquid waste.	B-1
Complete "B" OTSG cooling and modification (long-term).	C-1
Upgrade Decay Heat Removal System.	C-1
Complete calibration of alternate pressurizer level transmitter.	C-1
Development of alternate system for pressure/volume control system.	C-1
Determine suitability of using both steam generators as heat sinks.	C-2
Complete "A" OTSG cooling modification (long-term).	C-2
Complete external valve pit for ADHR System.	C-2

CATEGORY

- A      Control (i.e., containment) of radioactivity in Auxiliary and Containment Buildings.
- B      Recovery of Auxiliary Building to near normal operations.
- C      Place the plant in a cold condition suitable for depressurization with long-term pressure/volume control.



ACTION ITEMS

Technical Group Meeting  
1800 4/29/79

- |   | <u>Action</u>      |
|---|--------------------|
| 1. Set up a blower exhausting through charcoal filters to pull dead air out of the Auxiliary Building drain+vent header systems.  | Herbein            |
| 2. Determine which electrical shorts in containment could give an indication of containment sump level.   | Wilson             |
| 3. Identify critical valves and instruments which may be damaged by high sump levels. Critical valves will be meggered weekly.  | Wilson/<br>Herbein |
| 4. Identify flow paths from the containment sump.   | Rusche             |
| 5. Prepare a recommendation of whether the installation of the alternate system for the solid circulation of the OTSG's should continue. Identify options for decay heat removal. | Levenson           |
| 6. Calculate the feed flow necessary to maintain RCS temperatures while flashing across the bypass valves.  | Wilson             |
| 7. Calculate the minimum secondary water flow necessary to maintain natural circulation while in solid secondary circulation.   | Wilson/<br>B&W     |
| 8. Contact R. Arnold if any RCS parameters change significantly or before changing present routine for maintaining natural circulation.   | Herbein            |
| Notification levels:  |                    |
| a. $DT_a$ loop greater than $20^\circ$ .  |                    |
| b. $T_h$ increasing for 8 hours.  |                    |
| c. Hottest ICT above $350^\circ$ .  |                    |
| d. $T_s$ goes below $T_c$ by more than $5^\circ$ .  |                    |
| e. Any ICT reading increases by $30-40^\circ$ .   |                    |
| 9. Provide Operations Department with System Description for the Alternate Decay Heat Removal System.   | Westinghouse       |

4/30/79

	<u>Action</u>
10. Provide Operations Department with System Description for the Auxiliary Diesel Generator.	B&R
11. Run two Auxiliary Building exhaust fan and one supply fan. Evaluate the effect of the new line-up then run two Fuel Handling Building exhaust fans and one supply fan.	Herbein
12. Maximum allowable Auxiliary Building stack activity is $5 \times 10^{-7}$ uc/cc iodine.	Herbein
13. Record readings from radiation monitors on Auxiliary Building Roof Ventilation System for calibration and cross-checking.	Herbein
14. Protect feed bypass lines on turbine floor.	Hirst
15. Install block frame to isolate Auxiliary Building Roof Ventilation System if it can be done in two shifts.	Hirst

PLANT MODIFICATIONS

Task	Description	Priority	Expected Completion	Status	Task Coord.
WG-2 (L-1)	Decon. water in AB using EPICOR ion exchange process.	A-1	Turn over for test 5/5. Operational 5/7.	27 of 59 ECM's issued.	Cobean
WG-11	Water Chemistry Lab for use with CAP-GUN (WG-2).	A-1	Operational 5/3.	Scheduled completion 5/2.	Cobean
WG-6 (L-2)	Install storage vessels in Fuel Pool "A".	A-1	Operational by 5/7.		Cobean/ Gunn
WG-1	Install AB/FHB Filter system. MEC install high noise level signs.	A-2	Units 1 and 2 (tested) Units 3 and 4 - 5/3.	Building complete by 5/4.	Gunn/ Thorpe/ Bachofer
TS-3C	Develop complete package for long-term cooling of OTSG "B". Use Unit #2 Demins for long-term system.	C-1	Instal. comp. 5/9.	Equip. avail. 5/2.	Wilson/ Cobean
TS-10	Install 2/2500 kw diesel generators - vendor. Run diesel, fill fuel system.	C-1	Run on 5/8.	Instal. complete	Cobean/
TS-11	Develop electrical distribution system - 13.2 KV line.	C-1	Turn over for test 5/3. Run on 5/8.		Cobean
TS-6B	RCS pressure control system.	C-1	Turn over for for test 5/11.		Miller/ Lilly
TS-6C	Evaluate letdown capabilities for mod. to RCS.	C-1		To be scheduled.	
TS-13	Install elec. heaters on Aux. Bldg. intake ducts.	A-2	Follows decon.	Complete two (2) days after Aux. Bldg. decon.	
TS-14	Shield for decay heat pump.	C-2		Installation to be scheduled by 4/30.	Wilson



PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Obtain RCS sample.	C-1	#6 0500, 5/01	Ship to B&W.	Thorpe/ Hetrick
2.	PZR Heise and diff. pressure gage.	C-1		Recalibrating	Wilson/ Broughton
3.	Obtain MEC approval.	C-1		Need ECM's 132, 141, 148, 163, 170, 181, 182, 185, 189.	Porter/ Faulkner
4.	SSRW Pumps.	C-1	"A"-In Service "B"-Available "C"-Under Repair	Parts 5/07/79	
5.	Make calculation of RAD levels that will occur in cond. Demins- if we circulate and clean "B" OTSG.	C-1		Tom Crimmins to define shielding requirements.	Cobean/ Gunn
6.	Prepare instructions for loss of gland steam to turbine.	C-1	Procedure due 4/30.	In progress.	Floyd/ Kunder
7.	Be prepared to run Existing B Decay Heat Pump on Recirc.	C-1	Expect to run 5/1/79.		Toole
8.	Review tie-in to stack for AB H&V. No cap on stack; verify flow monitor capability.	A-1	Tie-In 4/30.		Gunn/ Toole/ Thorpe
9.	Repair 4 secondary plant leaks and clean up water around cond. pumps.	B-1	In progress.	CO-V-53C FW-V4B CO-V-6A CO-V-6B	Shovlin/ Kunder
10.	Get sec. plant sump levels down.				Kunder
11.	Drain OTSG "B" and process water through CAP-GUN I.	A-1	Start 4/30	Require IAG go ahead.	Kunder

WESTINGHOUSE

Task	Description	Priority	Expected Completion	Status	Task Coord.	Note
I.B.2	Install Aux. Building TV Monitor Aystem.	1	4/28	In progress	Siano	
I.B.4	Install DHR remote ops. equip.	1	4/30	Ongoing	Siano	
I.B.5	DHR flow/pressure tests	1	5/1	Ongoing	Siano	
II.A.1	ADHR (new) sys. design and approval.	1	4/30	Ongoing	Siano	
II.A.1	Find ADHR test procedure.	1	5/3	Ongoing	Siano	
II.A.1	Find ADHR installation procedure.	1	5/10	Ongoing	Siano	
II.B	ADHR Installation.	1	5/18	Ongoing	Siano	
	Licensing Report.	1	4/26	Formal submittal to GPU.	Siano	



TECHNICAL SUPPORT

Task	Description	Priority	Expected Completion	Status	Task Coord.
LS-2	Tech Spec. deletions, changes, and additions for long-term cooling.	C-1	No status	NRC inter- actions under negotiation.	Harding (Stair)
TM-35	Establish long-term plant instrumentation requirements.	C-1	No status		Croneberge/ Chisholm
AA-64	A. Report for cooldown on OSTG "B".	C-1	5/1		Crimmins
	B. Report for solid on OSTG "A".	C-1	5/5		Crimmins
AA-78	Evaluate options for mid-term continued operation.	C-1	4/30		G. Bond
AA-79	Define "alert levels" for various parameters.	C-1			

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-10	Pursue activities on processing Unit 1 water through CAP-GUN to both provide support to insure available freeboard for Unit 2 and to develop resin formulations for Unit 2 water.	A-1		In progress.	Garman/ *Weller
L-14	Evaluate waste gas vent header leakage problems and recommend fixes depending on results.	A-1		Working per J. Seelinger's waste gas plan of 4/17/79.	Rhyne/ Arthur/ *Barrett
L-36	Investigate the effects which the operations associated with reactor plant long-term cool down will have on discharge to the waste systems. Related to L-6.	C-1		In progress.	Ross/ *Collins
L-38	Develop Tank List Showing: A. Connection to vent header. B. Condition of connections. C. Pressure set point of relief valves and/or rupture disks. D. Where relief valves and rupture disks vent to.	1		Complete.	Kraft/ Arthur
L-42	Development recommendations and procedure for draining and disposition of RCBT water to support plant needs to make up with degassed demin. water.	C-1			Ross
L-44	Evaluate system designs with Technical functions and W to assess possible interference problems from standpoint of locations, operations, maintenance, etc.	B-1		Complete.	Kraft
G-1	Install AB/FHB off-gas filter system to back-up plant system.	A-1		Phase I design complete. System description is complete, start-up procedure in drafting. Pre-op procedure in drafting by Met-Ed. UE&C supporting construction. Plan is Phase I, 2 or 4 trains	Montgomery/ Itchner/ *Collins
	*NRC contact			(Cont.)	

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-1	Install AB/FHB off-gas filter system to back-up plant system.	A-1		(Cont.) running. Phase I schedule developed, shows 4/28 completion. Phase II & III lead to permanent system, schedule shows 5/1 operation. Noise problem requires evaluation.	Montgomery/ Itschner/ *Collins
G-5	Change out AB/FHB HVAC vent filter train charcoal bed.	A-1		Long-term storage plan under study. 35 permanent storage/shipping containers in fabrication, delivery starts 4/25. "A" and "B" trains of the AB filters and "A" train of FHB filters removed and replaced, units back in service. High radiation level in "B" train dictates delay "B" train change out.	McConnell/ Edwards
G-31	Determine air flow paths in AB/FHB.	A-1		Operating matrix being developed- available 4/22. Update scheduled 4/28.	Nawaz/ Itschner/ Robison/ *Barrett
G-32	Determine that there are no unidentified air flow paths.	A-1		Examination of plant status/ configuration underway. First cust. review complete.	Nawaz/ Itschner/ Robison/ *Barrett
	*NRC contact				



## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-34	Review overall Unit 1 and 2 AB and FHB ventilation requirements with a view towards minimum flow from Unit 2 to Unit 1.	B-1		Review underway; documentation completed.	Itschner/ Robison/ *Barrett/ *Collins
G-40	Criteria for and control tasks resulting in the evolution of contaminants that could poison charcoal filters.	A-1		20 "Red Devil" type local filtration systems on order to control welding fumes.	
L-3	Determination of leakage paths and flow rates in Unit 2 Aux. Bldg. and FHB and repair of leaks where possible. Plant has leakage ID and Status Board in Unit 2 Control Room. Pursue Plant activities associated with this.	2		Plant staff following.	Kraft/ Arthur/ *Cwalina
L-12	High level solid waste disposal investigation.	B-2		In progress.	Edwards/ *Waller/ *Collins
L-15	Develop and implement a Unit 1 and 2 tank record to insure knowledge of water movement, tank levels, etc. Present to Plant staff for implementation.	A-2		Plant staff produces daily report. Complete.	Kraft/ Lutz/ *Cwalina
L-26	Perform assessment of the value and need for a closed circuit TV Monitor to provide remote indicator of radwaste panel data.	A-2		Price proposal being assessed versus decon. schedule of Aux. Bldg.	Kraft/ Lutz/ *Stoddart
L-29	Investigate reported water collection in the "B" fuel pool, obtain samples and make plans for disposition. Also investigate the preoperational condition of the fuel pool from a leakage standpoint.	B-2		Water from Unit 2 const. Sample needed.	Williams/ *Barrett
	* NRC contact				

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-33	Develop a plan for tying in the tank farm to EPICOR 2.	B-2		In progress - investigating secondary tie-in.	Snider/ *Weller/ *Collins
L-35	Investigate the need for a design and construction task to erect a barrier between the Unit 1 and Unit 2 Fuel Handling Bldg. to enable Unit 1 operations with Unit 2 in processing Mode.	B-2		Alternate design Unit 1 side to be submitted 4/27/79.	Williams/ *Barrett
L-37	Develop a plan for removing all radioactive gases from the systems in the AB and FHB.	B-2		Requires completion of L-14.	Ross
G-7	Condenser vacuum pump discharge filter system.	A-2		Filter operational. Investigating operating criteria. Will evaluate DF.	Robison/ Montgomery/ *Collins
G-30	Reactor Purge System Charcoal Filter Sample.	A-2		Radiation survey requested. Task on hold.	McConnell *Collins
G-33	Desensitize AB and FHB Filter Monitors.	A-2		Preliminary investigation-desensitization infeasible.	Sieg/ *Stoddart
G-36	Develop "standard" contaminated work area radiological protection system(s), including air supply, clothing, communications systems, etc., which permit best possible working conditions	B-2		Suggest tasking a Met-Ed HP, Met-Ed Maintenance, ALARA on WMG team to develop standard work package.	*Stoddart
	*NRC contact				

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-39	Develop and assess back-up gas filtration scheme to cross connect the Auxiliary Building filters to the RB purge filters.	B-2		B&R has developed a concept. Second estimate scheduled shows 14 day + schedule. Heisman Co. has developed drawings. Exposure/schedule cost appears too high. Contingency plan is to open roughly filter manway if emergency ventilation of Auxiliary Building is needed.	McConnell
G-41	Develop filter management strategy.	B-2			
L-11	Investigate/develop process for eliminating Unit 2 water in RCBT's. Process planning for Unit 1 and 2. Design (conceptually) a waste processing system for Unit 2 High Level Liquid Wastes.	B-3		Detail design scheduled to start 4/25/79.	Snider/ *Weller
L-16	Low level waste (paper, rags, wood, etc.) disposal.	B-3		In progress; second compactor ordered.	Edwards/ *Weller/ *Collins
L-17	Develop CAP-GUN 3 System.	B-3		Initial planning only. Detail design scheduled to start 4/25/79.	Snider/ *Weller/ *Collins
L-20	Obtain a level measurement and a sample of water from the RB sump and basement.	B-3		Measurement using Heise gage being explored.	Ross/ *Cwalina
	*NRC contact				



WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-22	Develop a plan for long-term cleanup to provide access to Auxiliary Bldg. for restoration activities.	B-3			Open/ *Collins
L-28	Develop a history of water transfer operations in Unit 2 Auxiliary Bldg. using Radwaste Engineering Logs as a first pass for developing this information.	A-3		Complete.	Kraft/ Lutz/ *Cwalina
L-30	Develop plan for radiation survey in Auxiliary and Fuel Handling Bldg.	B-3			Open/ *Stoddart
L-32	Develop a list of temporary tanks available at TMI which could be used for emergency water storage. This should include all tanks brought to TMI following the incident, as well as any tanks provided by Met-Ed prior to the incident.	A-3		Complete.	Lutz/ Arthur/ Kraft/ *Weller
G-15	Emergency RB Gas Purge Cleanup System.	A-3		On hold; no plan to implement.	Open/ *Collins
G-29	FHB Airlock.	B-3		Airlock unnecessary at this time.	Inactive/ *Barrett
	*NRC contact				

INDUSTRIAL ADVISORY-GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
2.	Provide recommendation for alternate methods of P/V control.	1		In progress	Ackerman
11.	Instrument diagnostics.	1		Continous	Ackerman
25.	Instrument				
	a. 12 selected TC's on recorder or computer	1		In progress	Stroupe
	b. TH & TC on recorder	1		In progress	Stroupe
26.	Review of Natural Circulation				
	a. Review and recommend criteria for natural circulation	1	Comp. 4/28	IA 26D 4/28	Levy
	(a1) Additional calculations to support natural circulation	1	Comp. 4/28	IA 26A Add. 1	Levy
	(a2) Implement cautions described	1	Comp. 4/28	IA 26A Add. 2	Levy
	b. Means of determining natural circulation if level indication is lost	1	Comp. 4/28	IA 26F	Levy
20.	Evaluate various alternatives to decontaminate plant; long-term.	1		Not started	Lawborski
31.	Alternate pressurized level procedure for comment.	1			Stroupe
33.	Evaluate pressurizer volume control option w/o level instr. using make-up tank. Trigger point or method for loss of liquid indication and strat. on 30-hour criteria to go solid.	1			Kelly
34.	Evaluate core significance of ex-cure upper-lower ratio.	1	In progress		Zebroski/ Ackerman
35.	Modification of EP-32 for loss of natural circulation in "A" loop.	1		In progress	Stroupe

## INDUSTRIAL ADVISORY GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
36.	Understanding of present natural circulation - Review what happened? "B" loop on natural circulation.	1		In progress	Kelly
37.	Switching mode and analyzing of "B" solid state with present equipment.	1		In progress	Buhl
38.	Preliminary assessment of core configuration from thermocouple response during transfer to natural circulation.	1	Comp. 4/28	IA 38	Zebroski
12.	Specifications for Reflux Boiler Test				
	a. Feasibility	2		In typing	Fornandoz
	b. Specific parameter	2		In typing	Fornandoz
13.	Water Level/Reactor P/V				
	a. Short-term	2		In progress	Ackerman
	b. Long-term	2		In progress	Ackerman
14.	Model for boron/gas in primary system.	2		Being written	Koler
19.	Time to core melt with no external cooling and removal through flooding of containment.	2		Not started	Fornandoz
22.	Plan Mod - piping and equipment.	2		In progress	Lawborski