

TECHNICAL WORKING GROUP

1300 5/10/79

1. Agenda, 1300, 5/10/79, Technical Working Group
2. Radioactive Releases and RCS Profile

---

3. Top Priorities List
4. Action Items from 1300, 5/9/79, Technical Working Group
5. Plant Operations Planning
6. Task Lists

2006 288

May 10, 1979  
1300

AGENDA  
TECHNICAL WORKING GROUP

1300 5/10/79

1. Radioactive Releases

- a. 7-8, 219, Auxiliary Building Fans
- b. Vent Header and Drain Trunk
- c. Dome Radiation Monitor

2. Plant Status

- a. RCS Profile
- b. Plant Operations Schedule
  - DHP 'B' Leak Test
  - DHP 'A' Test
- c. Schedule for next solid operations
- d. Schedule for next RCS sample
- e. Heater Alarm circuit

3. Containment Level Determination - Cycle DHV-6B

4. Pressurizer Level - Evaluate LT-3 indication discrepancy

5. Construction Status

	<u>Estimated Completion</u>
a. Tank Farm	5/16
b. OTSG 'B' Longterm Cooling	5/14
c. EPICOR (CAP-GUN II)	5/18
d. RCS Pressure/Volume Control turnover for testing	5/14
e. Aux. Bldg. Roof Ventilation Fans	
full availability	5/10
system complete	5/13
f. Aux. Diesel Generators (A & B)	5/10 & 5/12
g. Alternate Decay Heat Removal	6/1

2006 289

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
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
Develop and calibrate alternate pressurizer level measurement.	C-1
Development of alternate system for pressure/volume control system.	C-1
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.

2006 290



ACTION ITEMS

TECHNICAL WORKING GROUP MEETING

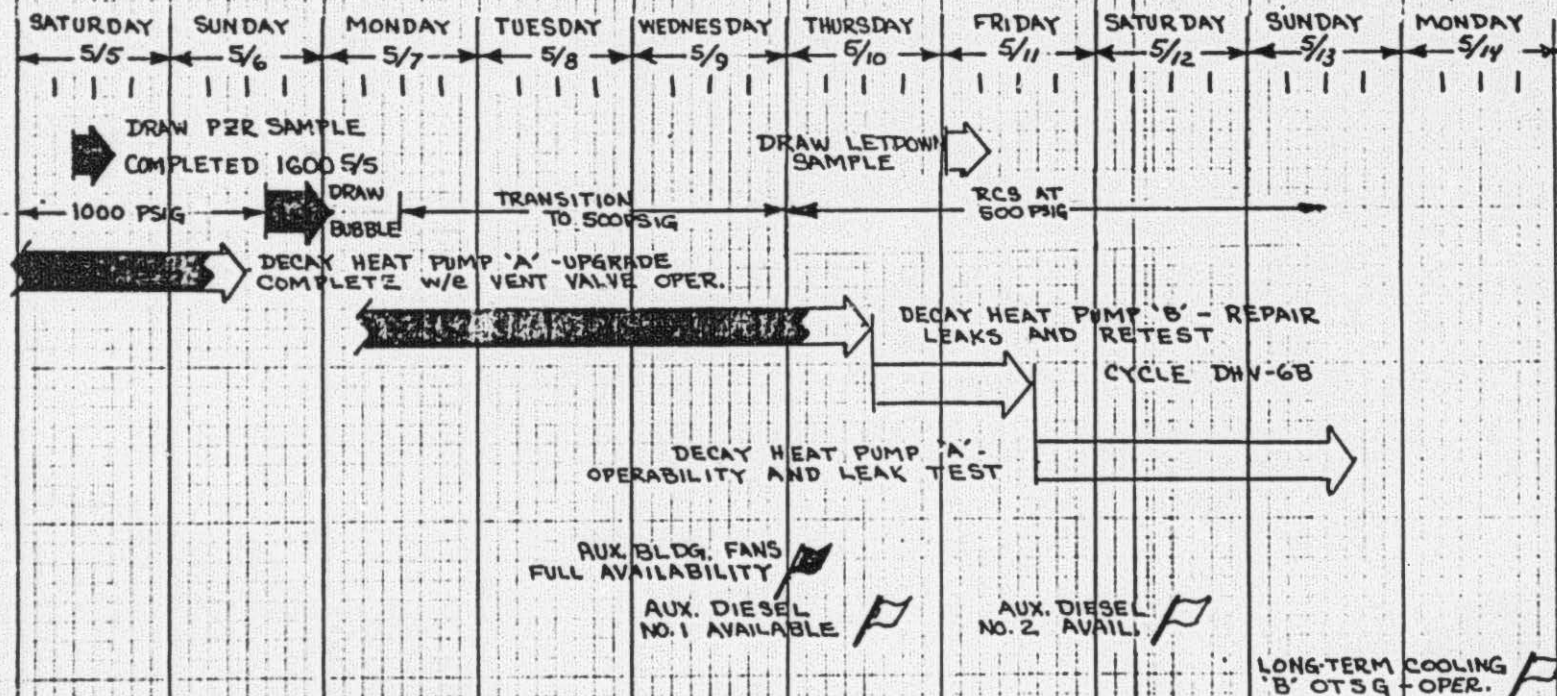
1300

5/9/79

<u>Items</u>	<u>Action</u>
1. Determine the core fission product inventory which has been released from the fuel.	Rusche/Wilson/Fletke
2. Continue preparations for change out of the FHB Train 'B' filters.	Rusche/Herbein
3. Develop pressurizer heater alarm response procedure.	Herbein/Wilson
4. Resolve DH flow element flange bolt material procurement problems.	Herbein
5. Obtain RCS sample on 5/10/79.	Herbein/Hetrick
6. Determine voltage to be applied to pressurizer heaters during low power energization.	Wilson
7. Identify procedure review priorities and expedite PORC review.	Wilson/Herbein
8. Resolve NRC request for all non-redundant BOP diesel loads to be powered by the same diesel.	Cobean
9. Determine if a path or time existed for radioactivity to reach the S/G's from the RC drain tank.	Wilson

2006 291

# PLANT OPERATIONS



2006 292

PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Obtain RCS sample (Primary letdown).	C-1	Obtain 5/11, 0900	Possible 5/10.	Thorpe/ Hetrick
2.	Boron Concentration: Take RC sample.	C-1	Next sample 5/11		Kunder
3.	Obtain MEC approval (Tie-in approval only).	C-1	Need status.	Need ECM's 109, 132, 133, 141, 148, 170, 181, 185, 228, 239.	Porter/ Faulkner/ Seelinger
4.	SSRW pump, IC repair.	C-1	"A"-In Service "B"-Available "C"-Available Complete 5/15.	Disassembling.	
5.	Decay Heat System.	C-1	Hydro "B" 5/8. Hydro "A" 5/8. Cycle DHV-6 after "B" hydro.	Repair "B" leaks and re- hydro 5/8; flow element run 5/8.	Toole
6.	Repair secondary plant leaks and clean up water around cond. pumps.	B-1	In progress. Due 5/10	FW-V4B complete.	Shovlin/ Kunder
7.	Get sec. plant sump levels down.				Kunder
8.	Isolate Unit #1 and #2 sample stations.			Need new sample tank.	Limroth/ McGoey
9.	Training on Diesel.		In progress		Troffer/ Kunder/ Toole
10.	Training on Decay Heat.	C-1	In progress.	Resolve NRC comments.	Troffer/ Kunder/ Toole
11.	Develop balancing scheme for Aux. Bldg. HVAC.	B-1	On hold.		Toole
12.	Set up alarm system on PZR Htrs. for low-level detection.		No date.	In progress.	Kunder/ Shovlin/ Braulte
13.	Calibration of Rad. monitor #4 Aux. Bldg. Vent #1 & #2 Shut Down-Elec. tie-in #1, 2, 3, & 4 all balanced	B-1 B-1	5/7 2400 5/9 5/7	Complete. In progress. Complete.	

2006 293



PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
14.	Sample AB/FHB charcoal beds.				Kunder/ Hetrick
15.	SFAS Disabling.			Use TP310/3.	Keaten
16.	Synchronize grey diesel.		5/10 - 5/11		Toole
	Synchronize white diesel.		5/12 - 5/13		Toole
17.	Reduce RCS pressure to 500-psig.	A-1	5/10 0200	Begun 0415, 5/8.	Herbein
18.	Flush and hydro fire service to the AB Roof H&V.		5/9		Toole
19.	RCP Seal Return Temperature.		Need guidance		Kunder
20.	Test sample trailer.				Toole

2006 294

PLANT MODIFICATIONS

Task	Description	Priority	Expected Completion	Status	Task Coord.
WG-1	Install AB/FHB Filter system.	A-1	Units 1, 2, 3 and 4 - fans operable.	System operational 5/10; complete 5/13.	Shubert
WG-2 (L-1)	Decon. water in AB using EPICOR ion exchange process.	A-1	Operational 5/19.	Schedule slipping to 5/19 due to piping; welds 49% complete.	Lacy/ Fricke
WG-6 (L-2)	Install storage vessels in Fuel Pool "A".	A-1	Operational by 5/16.	Hydro 5/12	Gibson
WG-11	Water Chemistry Lab for use with CAP-GUN (WG-2).	A-1	System complete by 5/7.		Tolle/ Rao
WG-12	Ventilation filtration system for decay heat pits.	A-1		No status; on hold.	Shubert
TS-13	Install elec. heaters on Aux. Bldg. intake ducts.	A-2		No status; on hold.	Shubert
TS-3C	Develop complete package for long-term cooling of OTSG "B".	C-1	System operational - 5/14. Demin. - 5/17.	Surge tank delivery is expected 5/10.	Jordan/ Lanza
TS-6B	RCS pressure control system.	C-1	Turn over for test 5/15.		Miller/ Lilly
TS-11	Develop electrical distribution system for (2) 2500 kw diesel generators - 13.2 kv line.	C-1	Operational 5/12.		Gagliardo
TS-14	Shielding for decay heat pump.	C-2	5/8	ECM not approved.	Lieberman
TS-18	Temporary cart-mounted demineralizers.	C-2	To be scheduled.		Cobean



WESTINGHOUSE

Task	Description	Priority	Expected Completion	Status	Task Coord.
I.B.5	DHR flow/pressure tests	1	5/8		Lehr
II.A.1	Final ADHR test procedure	1	5/3	Ongoing	Siano
II.B	ADHR Installation (See Note)	1	6/1	Ongoing	Lehr
	a. Qualify wall penetration and grout mockup	C-1	?	No status	
	b. Assemble ADHR skid	C-1	?	No status	
	c. Assemble CCW skid	C-1	?	No status	
	d. Complete elec. trailer	C-1	?	No status	
	e. Install penetration isolation box	C-1	?	No status	
	f. Core bore 12 holes in west wall	C-1	?	No status	
	g. Install pipe cable penetration	C-1	?	No status	
	h. Install 8" suction pipe	C-1	?	No status	
	i. Install 6" pipe ("A" train)	C-1	?	No status	
	j. Install 6" pipe ("B" train)	C-1	?	No status	
NOTE: Drilling of thirteen (13) holes in the Auxiliary Building for the ADHR to start when interference problem is resolved.					

TECHNICAL SUPPORT

Task	Description	Priority	Expected Completion	Status	Task Coord.
LS.2	Tech. Spec. and Surveillance and Bases Changes to those left deletions, additions.	1	?	Active: NRC interactions under negotiation.	L. W. Harding
LS.3	Initial Reporting of Event.	1	5/15 to NRC.	Active.	R. A. Lengel
TM.23	Reactor Coolant System P/V Control.	1	5/11	Active.	Cobean
TM.30	Determine what BOP loads need backup electrical power.	1	Continuing	Draft criteria document issued 4/24.	Capodanno/ Langenbach
TM.35	Long-term plant instrumentation requirements (criteria).	1	On hold.	Criteria docu. being revised.	Capodanno/ Langenbach
AA 61.	Updated SAR	1	?	Draft received.	B&W
AA 66.	D. How to maintain primary boron conc.	1	?	Active.	GPUSC/MPR
AA 69.	Define all plant mods needed for long-term operations.	1	?		Croneberger
AA 80.	Analytical and Tech. Planning Support for updated procedures (EP-32, etc.).	1	?	Continuing.	J. A. Daniel
AA 83.	Identify critical valves and instruments which may be damaged by high sump levels.	1	?	Active. Prelim. list available.	R. Long
AA 84.	Identify flow paths from the containment sump.	1	B&R investigating.	Active.	
AA 87.	Solid Pressurizer Analysis.	1	?	Active.	J. Moore
AA 96.	Boron concentration in RB sump 4/30 through 5/16.	1	?	Active.	J. Moore
TM.37	Installation of cartridge-type Demineralizer for clean-up of S.G. "B" secondary side.	1	ECM issued.	Revising design.	Capodanno/ Langenbach
AA 1.	Letdown Flow Analysis (continuing curve development).	1	Continuing	Active.	Met-Ed Control Room
AA 71.	Determine requirements to perform sample analysis locally.	1	?	?	

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-1	Design, installation, and operation of EPICOR for Unit 2.	B-1	5/19	a. Design - 97% b. Construction - 50% c. Licensing - NRC concurrence d. Operation - est. 5/14.	Snider/ Garman/ McCutcheon/ *Waller/ *Collins
L-2	Design, installation, and operation of emergency surge tanks (tank farm) in Unit 2 "A" Fuel Pool.	B-1	5/11	Piping installation slipping schedule to 5/19 comp. date.  75% comp. piping in FHB. 30% comp. welds in AB pipe, FB pipe. Prefab. pipe ready for installation in AB. "B" train pour planned for 5/7; "A" train pour complete. 75% concrete slabs placed atop fuel pool.	Reinmann/ Snider/ *Waller/ *Collins
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/ *Waller
L-14	Evaluate waste gas vent header leakage problems and recommend fixes depending on results.	A-1		Working per J. Seeinger's waste gas plan of 4/17/79.	McConnell/ Arthur/ *Bland
	* NRC contact				



## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-36	Investigate the effects which the operations associated with reactor plant long-term cooldown will have on discharge to the waste systems. Related to L-6.	C-1		In progress.	McGoey/ Ross/ *Collins
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			McGoey/ Ross/ *Collins
L-44	Evaluate system designs with Technical functions and W to assess possible interference problems from standpoint of locations, operations, maintenance, etc.	B-1		Report being prepared; delayed by higher priority tasks.	Kraft/ *Weller
L-47	Resolve sample lab requirements versus capabilities to support EPICOR I and II operations.	B-1		Meeting held 5/1/79; resolution in progress.	Kraft
G-1	Install AB/FHB off-gas filter system to back-up plant system.	A-1		Phases I, II, and III design complete. System description and start-up procedures are complete. Stack cut-in is made. Phases II and III lead to permanent system, schedule shows 5/6 operation.	Montgomery. Itschner/ *Collins
	* NRC contact				

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-5	Change out AB/FHB HVAC vent filter, train charcoal bed.	A-1		Long-term storage plan defined. 45 permanent storage/shipping containers in fabrication. 35 delivered. "A" train 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. Deluge systems secured on all renewed filter trains. Spent filter tray removal scheduled to begin 5/5.	McConnell/ Edwards/ *Weller
G-31	Determine air flow paths in AB/FHB.	A-1		Operating matrix developed and available.	Nawaz/ Itschaer/ Robison/ *Weller
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/
* NRC contact					

2006 300

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-38	Develop plan for ventilation system operation based on fan/filter train status and on door openings and other plant operation evaluations.	B-1		Need identified to set up a plan. Control/advise on local and system ventilation practice.	Itschner/ *Stoddart
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.	*Collins
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.	Pastor/ Edwards/ *Weller/ *Collins
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-27	Develop sampling plan to assess AB waste for transuranic content. Insure that Met-Ed Ops. coordinate sample requirements with ORNL to insure satisfactory analysis results.	B-2		Identified 4 samples, agreed on 3. Agreement reached on using previously taken samples from sump and bleed tanks; additional samples to be taken.	Passell/ Williams/ *Collins
* NRC contact					

2006 301



WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
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
L-33	Develop a plan for tying in the tank farm to EPICOR 2.	B-2		System criteria sent to B&R on 5/1/79.	Reinmann/ 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.	McConnell/ 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.	McConnell/ *Collins
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.	McConnell/ *Collins
G-33	Desensitize AB and FHB Filter Monitors.	A-2		Preliminary investigation - desensitization infeasible.	Sieg/ *Stoddart
	* NRC contact				

2006 502

## WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
G-39	Develop and assess back-up gas filtration schema 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 roughing filter manway if emergency ventilation of Auxiliary Building is needed.	McConnell/ *Lee
G-41	Develop filter management strategy.	B-2		Planning started.	Morton/ Clure/ *Bland
G-42	Develop a program to assess and monitor I release sources.	B-2		Four-part approach: 1. B&R to complete review of release candidates. 2. Pursue a tracer program to find leak. 3. Pursue an air monitoring program with SAI/EPRI to plot I levels. 4. Review local ventilation conditions to verify flow distributions.	McConnell/ Arthur/ Montgomery. *Bland
* NRC contact					

2006 303

WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-11	Investigate/develop process for eliminating Unit 2 water in RCBT's. Process planning for Units 1 and 2. Design (conceptually) a waste processing system for Unit 2 High Level Liquid Wastes.	B-3		Proposal to be received from chem-nuclear 5/4/79.	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
L-22	Develop a plan for long-term cleanup to provide access to Auxiliary Bldg. for restoration activities.	B-3			Open/ *Collins
L-30	Develop plan for radiation survey in Auxiliary and Fuel Handling Bldg.	B-3			Open/ *Stoddart
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					

2006 304