

5/25/79

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TECHNICAL WORKING GROUP

1. Agenda, 5/25/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items from 0900, 5/24/79 Technical Working Group
5. Task Lists

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A G E N D A

TECHNICAL WORKING GROUP

0900

5/25/79

1. Radioactive Releases

a. 748, 219, Auxiliary Building Fans

b. Point Sources

c. Dome Monitor - Containment Survey

*still - Ductility
Analysis proceeding. Early results indicate expected readings - packages indicated values are real. (lower R originally, manual checked now). Report next week.*

2. Plant Status

a. RCS Profile

b. Plant Operations Schedule

Pressurizer Bubble Operation

Reactor Building Sump Level Measurement

Replacement of "B" Train FHB Charcoal Filters

75% Cycled after minor difficulty. Cycled again. 1 hour. Consider adding PI just upstream of DN-V3.

3. Analysis

a. Reevaluation of existing recommendation to draw a bubble vs. solid operation.

b. Reduction to 300 psig - Increase in loss of pressure protection?

c. Reevaluate the curve supplied for throttling steam bypass based upon present temperature and pressure conditions.

4. Construction Status

Estimated Completion

a. RCS Pressure/Volume Control Turnover for Testing

6/1

*parking 4/6
Frank Leary*

b. Alternate Decay Heat Removal System Tie-ins

6/16

5. Preoperational Testing

a. Tank Farm (Zero Leak Testing)

should call around pump difficult enough job. Work over weekend.

b. OTSG "B" Long-Term Cooling

In review

c. EPICOR (CAP-GUN II)

Load cap gun filter today

*Prens sample
RCS sample*

*Tuesday
Wet*

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<u>RELEASES</u>	<u>0500 (5/23/79)</u>	<u>0500 (5/24/79)</u>	<u>0500 (5/25/79)</u>
748	6.20×10^{-9}	6.17×10^{-9}	out of service
219	8.10×10^{-12}	5.23×10^{-9}	out of service
Inlet	5.30×10^{-9}	0.23×10^{-9}	3.22×10^{-9}
Train #1*	7.00×10^{-12}	5.06×10^{-12}	5.73×10^{-12}
Train #2*	7.40×10^{-12}	6.63×10^{-12}	7.43×10^{-12}
Train #3*	6.72×10^{-12}	4.24×10^{-13}	1.72×10^{-13}
Train #4*	6.37×10^{-12}	4.41×10^{-12}	5.08×10^{-13}

REACTOR COOLANT SYSTEM PROFILEPLANT STATUS

	<u>0500 (5/23/79)</u>		<u>0500 (5/24/79)</u>		<u>0500 (5/25/79)</u>	
	A	B	A	B	A	B
Th	167.5	168.6	167.1	168.2	165.8	168.2
Tc	155.6	100.7	156.1	98.7	154.7	97.4
ΔT	11.9	67.9	11.0	69.5	11.1	70.8
Tstm	153.9	125.0	153.3	125.5	152.4	125.5
PZR Level	Cal.	Solid	Solid		Solid 376 ?	
	DVM	-	-		-	
	Lt-3	229.5	-		-	
R.C. Press.	Heise - 425		Heise - 420.0		Heise - 310.0	
	DVM - 427		DVM - 423.3		DVM - 300.0	
S/G Level	430"	96%	410"	96%	428"	96%
Turb. B/P	50%	Closed	56%	Closed	56%	Closed
I.C.T.	High	301.7	300.8		299.6	
	Avg.	191.6	-		189.9	
M.U. Temp.		129	125		127	

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ACTION ITEMS

TECHNICAL WORKING GROUP

0900

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<u>Item</u>	<u>Action</u>
1. Install pressure indication between DHV-3 and the building wall.	Herbein
2. Verify containment level reading and evaluate the possible air gap in sensing line.	Herbein/ Wilson
3. Evaluate megger readings on DHV-2 to obtain additional information concerning actual containment building level.	Herbein/ Wilson
4. Evaluate operationally testing the reactor building coolers for possible leakage	Herbein
5. Modify procedure such that a complete lineup for containment level check is accomplished with the exception of DHV-6B and provide minimum daily level checks. Provide reading early on second shift 5/25/79.	Wilson/ Herbein
6. Continue pressurizer bubble mode operation under present plant status until 1:30 - 5/25/79.	Herbein
7. Evaluate evaporative cooling system surge tank as a means of providing additional information concerning R.B. leakage.	Herbein
8. Evaluate electrical outlets/components as a possible source of level indication and determine the next critical electrical components above DHV-1 and 171. <i>List being verified</i>	Wilson/ Cobean
9. Evaluate the options of water movement from containment and pressure relief in the form of vent or purge operation of the containment for 1330 5/25 meeting.	Rusche
10. Evaluate the availability of the tank farm and the possible sources of leakage to the building containment for 1330 5/25 meeting.	Wilson/ Herbein
11. Evaluate existing data concerning level determination for accuracy for 1330 5/25 meeting.	Cobean/ B&W/ Wilson
12. Provide holiday coverage for shield installation of Tank Farm Pump.	Hirst

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
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
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.

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ACTION ITEMS

TECHNICAL WORKING GROUP

0900

5/24/79

<u>Item</u>	<u>Action</u>
1. Perform another containment level measurement to verify yesterday's reading.	Herbein
2. Evaluate current containment level data and instrument calibration. Provide results.	Wilson/Herbein
3. Evaluate the current loss of reactor coolant pressure indicators in light of existing instrumentation and procedures.	Wilson
4. Review alternate points for installation of additional pressure instrumentation.	Cobean
5. Determine if pressure measurement can be accomplished by using pressure portion of P/V control system as installed to date.	Cobean/Hirst/ Wilson
6. Provide margins of limits on Th for 170° F. and 300° F.	Wilson
7. Evaluate the best method of operationally testing the coolers within the building cooling (containment) system.	Herbein
8. Determine the before and after radiation surveys necessary for valve opening of DHV-2.	Rusche/Herbein
9. Evaluate the present ESW recommendation to add sodium hydroxide to the RC9 to increase the ph value.	Wilson

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PLANT OPERATION STAFF

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Plant Status.	A-1		Solid @ 400 psig.	
2.	Get recommendation on running OTSG "B".	C-1		Run pump on recir. and develop plan for cutting into OTSG "B".	Kunder
3.	Obtain RCS sample (Primary letdown).	C-1	5/24	RCS Sample	Hetrick
4.	SSRW pump "C" repair.	C-1	Comp. by 5/25	Assembling.	Shovlin
5.	Decay Heat System.	C-1		Hold on repair of "A" leaks.	Toole
6.	Remove water from "B" Fuel Pool.	B-1		Hold.	Kunder/ Logan
7.	Isolate Unit #1 and #2 sample stations.			Need new sample sink.	Limroth/ McGoey
8.	Training on Decay Heat.	C-1	In progress.	Westinghouse will provide training plan.	Troffer/ Kunder/ Toole
9.	Sample AB/FHB charcoal beds.	B-1		FHB "A" follows "B" changeout.	Hetrick
10.	Repair DW-P-4A.		Comp. by 5/24	60% complete. No date.	Shovlin
11.	CO-P-1B repair motor.			Motor to Phila. for repair. Return 5/25.	Shovlin
12.	Repair of 3 B FW heater (TS - 3C plant mods.)	C-1		Vendor due 5/24.	Shovlin

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Task	Description	Priority	Expected Completion	Status	Task Coord.
13	Erect high radiation doors in Aux. Building				Shovlin

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PLANT MODIFICATIONS

Task	Description	Priority	Expected Completion	Status	Task Coord.
WG-1	Install AB/FHB Filter System.	A-1	Punch list items to be completed.	System operational 5/10; complete 5/15.	Shubert
WG-2 (L-1)	Decon. water in AB using EPICOR ion exchange process.	A-1	Punch list items to be completed.	Turned over 5/23.	Lacy/ Fricke
WG-6 (L-2)	Install storage vessels in Fuel Pool "A".	A-1	Turn over by 5/25.		Gibson
WG-11	Water Chemistry Lab for use with CAP-GUN (WG-2).	A-1	Punch list items to be completed.	System complete 5/23.	Tolle/ Rao
WG-12	Ventilation filtration system for decay heat pits.	A-1	Turn over 5/27.		Shubert
TS-3C	Develop complete package for long-term cooling OTSG "B".	C-1	Punch list items to be completed.	Completed 5/23	Jordan/ Lanza
TS-6B	RCS pressure control system.	C-1	Complete by 5/29.	All spools in, not tight.	Miller/ Lilly
TS-14	Shielding for decay heat pump.	C-2	Turn over 5/28.		Lieberman
TS-15	Westinghouse ADHR.	C-1	Turn over 6/21.	Schedule status shows piping installation and BER design are behind schedule.	

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Westinghouse

Task	Description	Priority	Expected Completion	Status	Task Coord.
TS-15	ADHRS Installation	C-1	6/21	See Below	F. J. Serag
	Westinghouse Engineering Design Complete	"	5/26	90% Complete	
	Valve Pit Design Complete (B & R)	"	5/25		
	Assemble ADHR Skid	"	5/25	Mech. 95% Complete, Elect. 45% Complete	
	Assemble CCW Skid	"	5/25	Mech. 95% Complete, Elec. 50% Complete	
	Receive Control Trailer	"	5/19	On-Site	
	Install Panels & MCC in Trailer	"	5/25	MCC's On-Site	
	Install Isolation Box	"	5/20	Comp.	
	Start Core Boring (12 holes)	"	5/23	Drilling in progress.	
	Complete Core Boring (12 holes)	"	5/26		
	Complete Installation of Pipe Penetration Assemblies	"	5/31		
	Cut 12" Header and Weld Weldolet	"	6/5		
	Cut 10" Header and Weld Weldolet Channel A	"	6/9		
	Cut 10" Header and Weld Weldolet	"	6/12		
	Complete Fit Up and Welding of Inside Piping (Total of 42 Field Welds)	"	6/16	First Two Field Welds Rejected, Rework in Progress.	
	Complete Fit Up & Welding of Outside Piping (Total of 15 Field Welds)	"	6/16	Excavation and support structure comp. Start date 6/1	

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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. Hard
LS.3	Initial Reporting of Event.	1	5/15 to NRC.	Active.	R. A. Leng
TM.23	Reactor Coolant System P/V Control.	1	5/23	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.	Update 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	?		Croneberge
AA 80.	Analytical and Tech. Planning Support for updated procedures (EP-32, etc.).	1	?	Continuing.	J. A. Dani
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. "2" secondary side.	1	EQI issued.	Revising design.	Capodanno/ Langenbach
AA-1.	Letdown Flow Analysis (continuing curve development).	1	Continuing.	Active.	Met-Ed Control Rc
AA 71.	Determine requirements to perform sample analysis locally.	1	?		

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TECHNICAL SUPPORT

Task	Description	Priority	Expected Completion	Status	Task Coord.
LS 5	Continued reporting to the NRC	1	On-Going	Last report sent 5/16/79	L. Harding
LS 8	Met-Ed Surveillance	1	On-Going	To be done on 6/14/79	L. Harding
LS 14	Investigate reportability of radioactive material dumping in the landfill area of TMI of 5/16/79.	1		In Progress	L. Harding
LS 15	Assist in the development of Radiological Effluent-Tech Specs	1		In Progress	L. Harding
LS 16	Investigate obtaining a permit to dump in the landfill area.			In Progress	L. Harding

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WASTE MANAGEMENT GROUP

Task	Description	Priority	Expected Completion	Status	Task Coord.
L-1	Design, installation, and operation of EPICOR for Unit 2.	B-1	5/23	Remaining items are installation of CAP-GUN equipment and coating of the floor.	Snider/ Garman/ McCutcheon *Weller/ *Collins
L-2	Design, installation, and operation of emergency surge tanks (tank farm) in Unit 2 "A" Fuel Pool.	B-1	5/23	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.	Reimann/ Snider/ *Weller/ *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/ *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.	McConnell/ Arthur/ *Bland
* NRC contact					

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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	5/10	Report issued 5/10; complete.	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. Four (4) fans are operable, 3 or 4 are running.	Montgome: Itschner *Collins

* NRC contact

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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		"A" & "B" trains of the AB filters and "A" train of FHB filters removed and replaced, units back in service. FHB "B" train in change-out scheduled for 5/17. Deluge systems secured on all renewed filter trains. Spent filter tray removal to storage completed.	McConnel Edwards/ *Weller
G-31	Determine air flow paths in AB/FHB.	A-1		Operating matrix developed and available.	Nawaz/ Itschner/ 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/ *Barrett
	* NRC contact				

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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 Mat-Ed Cps. 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

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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/ Montgomer/ *Collins
G-30	Reactor Purge System Charcoal Filter Sample.	A-2		RB purge filter sample all ready for analysis. Scheduled week of 5/20.	McConnell *Collins
G-33	Desensitize AB and FHB Filter Monitors.	A-2		Preliminary investigation - desensitization infeasible.	Sieg/ *Stoddart
	* NRC contact				

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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 roughing filter manway if emergency ventilation of Auxiliary Building is needed.	McConnel *Lee
G-41	Develop filter management strategy.	B-2		Standard procedures to sample charcoal systems in review.	McConnel
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.	McConnel McGoey/ Montgome SAI: Cline/ Pelitti Vollegu
* NRC contact					

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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
S-4	High level solid waste disposal investigation.	B-2		In Progress.	Pastor/ Edwards/ *Weller/ *Collins
S-5	Temp. on site storage for Demin. Liners - Design. *NRC contact	B-2	Final storage proposal by GAI. Being assessed by WMA.	In Progress	Pastor/ Edwards/ *Weller/ *Collins