TECHNICAL WORKING GROUP

1000 6/22/79

- 1. Agenda, 6/22/79 Technical Working Group
- 2. Radioactive Releases and RCS Profile
- 3. Top Priorities List
- 4. Action Items Technical Working Group 1000, 6/19/79
- 5. Task Lists

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AGENDA

TECHNICAL WORKING GROUP

1000

6/22/79

1. Radioactive Releases

- a. 748, Auxiliary Building Fans
- b. Point Sources Compressors
- c. Dome Monitor Containment Survey (14" Penstration)

2. Plant Status

- a. RCS Profile
- Containment Water Level
 Reactor Building Pressure
 Elect Checks Critical Equipment
- c. Plant Operations Schedule Sample Results -

3. Analysis

a. Status of Columnated Aqua Scan

4. Pre-operational Testing

Estimated Completion

a.	Tank Farm	6/22
b.	OTSG "B" Long-Term Cooling (Readiness to operate)	Completed (except insulation)
c.	EPICOR (CAP-GUN II)	7/9
d.	RCS Pressure/Volume Control	6/25

5. Construction Status

a. Alternate Decay Heat Removal

	System Tie-Ins		6/29
•	Available for Test	Met-Ed Acceptance	7/15 (Currently under study)
	Valve Pit Conc	rete Work	8/15

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RELEASES	0500 6/20/79	0500 6/21/79	0500 6/22/79
748	3.33 x 10 ⁻⁹	2.75×10^{-9}	
HPR 220	<5.73 x 10 ⁻¹⁴	<3.34 x 10 ⁻¹⁴	
Inlet	2.18 x 10 ⁻¹⁰	2.65 x 10 ⁻¹⁰	
Train #1	5.30 x 10 ⁻¹³	<1.59 x 10 ⁻¹³	
Train #2	<1.40 x 10 ⁻¹³	<1.02 x 10 ⁻¹⁴	
Train #3	6.88×10^{-13}	<1.75 x 10 ⁻¹³	
Train #4	<2.09 x 10 ⁻¹³	<2.00 x 10 ⁻¹³	

REACTOR COOLANT SYSTEM PROFILE

PLANT STATUS

		0500 6	/20/79	0500 6	/21/79	0500 6	/22/79
		A	В	A	В	A	В
Th		158.9	160.5	159.0	160.3	158.1	159.7
Tc		149.61	103.7	149.8	104.3	149.0	104.2
TΔ		9.3	56.8	9.2	56.0	9.1	55.5
Tstm		147.5	125.9	147.3	125.8	146.6	124.3
PZR Level	Cal.	So	lid	So	lid	So	lid
	DVM				-		-
R.C. Press.	Heise	32	6	32	5	32	6
	DVM	32	7.39	32	5.47	32	9 / 4.391
	Cavity	34	0	33	15	34	5
		420"	6.8 volts	405"	6.65 volts	412"	6.7 volts
Turb. B/P		35%	Closed	36%	Closed	35%	Closed
I.C.T.	High	27	0.8	27	0.1	26	9.4
	Min.	14	1.7	14	2.0	14	1.8
M.U. Temp.		13	9.8	14	0.1	13	7.6

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
8 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.
В	Recovery of Auxiliary Building to near normal operations.
С	Place the plant in a cold condition suitable for depressurization with long-term pressure,

ACTION ITEMS

TECHNICAL WORKING GROUP MEETING 1000 6/19/79

1.	When transporting waste liquids keep track of valves and maintain logs, status sheets, etc., to maintain proper fluid control during these movements.	Rusche
2.	Do not transfer Unit 2 accident waste liquids to Unit 1.	Rusche
3.	Be prepared to discuss at Friday's meeting status of the Columninated Acqua Scan.	Wilson
4.	Determine if either valve DHV-1 or DHV-171 should be opened or remain closed.	Wilson
5.	Continue to take RCS samples.	Rusche
6.	Provide a judgment on sample data concerning the validity of samples taken.	Rusche

Tile Collins
Tul Working Troup.

June 22, 1979

MEMO TO: Distribution

FROM: E. C. McCabe, Jr.

SUBJECT: NOTES ON LICENSEE TECHNICAL WORKING GROUP MEETING ON 6/22/79

1. Releases

Problem: Auxiliary Building DF (Sensor 222 to 228) appears to be only 1.5-2.0. To look at DF for past month, efficiency of charcoal and check for hypass flow. DF of about 10 was being achieved before at these low levels of input. Change of charcoal 2 times per week (Mon. & Thu.) acceptable to licensee. (No offsite release problems involved) - stack trains about E-13.)

2. Dome Monitor

Evaluation of validity to be provided for Tuesday meeting.

3. Iodine

Aux. Bldg I is relatively constant, not tracking decay rate. Cause unknown. No increase in leakage identified. Possible contributors include decreased fresh air input (diesel dose), leaching from concrete, and releases from cleanup process (minor burps). Evaluation of this area to be given priority.

4. Plant Status

Following the new curve for bypass valve (35 % closed). Primary leak rate about 0.35 gpm. B & W feels pressure not a problem above 150 psig (now about 325-350). Containment cooling still on 1 pump, 3 coolers, with evaporative cooling system being readied for use (has surge tank permitting leakage checks and allows securing river water pumps, uses

same cooling coils as at present.) Next plant change is scheduled to be pressure-volume control system operation-not definitively scheduled yet. Chlorides are 6 ppm, pH is 7.6, Boron is 3295 ppm, Na is 330 ppm, H₂ and total gas are 20.9 cc/kg (from 6/10 RCS sample). Radicksuclides are (uci/ml):I¹³¹ - 7.7; Cs¹³⁴-25; Cs¹³⁶-0.77; Cs¹³⁷-110; Ba¹⁴⁰ - 21; H³-0.33; Xe¹³¹-0.11; Xe¹³³-5.5 E-4.(telephoned results - may be some errors in communication.) Question: Why does pH tend to drop so much - about 0.5 per week? Answer not known.

5. Tank Farm

Eductor revisions continuing, as are pump rigs. Eductors probably to be finished first and tried tomorrow, then pumps if eductors still don't work. Upper eductors work now, but effluent is about 135°-ECM being issued for change to reduce temperature. Water in system to be filtered to remove fluorescene dye, to consider then processing thru EPICOR I (o.k. to do per Order).

*6. "B" OTSG Long Term Cooling

Vendor to come in today re leakage from pump seal, which is still a problem. "B" SG fill preps to continue, but actual fill not to be conducted until further directed.

7. CAP-GUN II (EPICOR 11)

Revisions being finished, need breaker parts and level switch, and
big
means of closing 5-9 doors. Nearing completion, but changes still
coming in. Shooting for 7/15 to be ready and trained for operation.

8. Interim Staging Area EPICOR-II

July 9-10 set for review by Penna. NRC:NRR to attend.

*9. Pressure-Volume Control (P/V Control)

Ready to set pressure regulating valve today; more N_2 to arrive today, permitting full charge of banks. Operational testing to begin this weekend, if feasible.

10. Fuel Handling Building Cleanup

To start on Monday - same staging to be left up.

*11. Sampling System

Line flush needed before tie-in - includes Heise gage line. 00\$ period is upwards of a day and involves gage relocation. NRR has the procedure for review. This is a problem area and acceptable resolution has not been achieved. Core drilling into model room completed.

12. Penetration 605

Probes in - initial readings at inner penetration point are 30 R (non-directional); 10 R looking down, 7 R horizontal, 4 R looking up.

13. Westinghouse ADHR

Valve pit next step - details should be available next week (Note:

Nonconformance on penetration grout forwarded by fax to RI (R. Carlson)

for review on 6/21.)

E. C. Aucak, Jr., Chief IE Resident Office, TMI

Distribution

TMI-2
J. Collins, NRR
D. Haverkamp
D. Neely

RI
B. Grier
E. Brunner
R. Carlson
G. Smith
H. Kisher
G. Walton

The

TECHNICAL WORKING GROUP

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6/22/79

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TECHNICAL WORKING GROUP

1000 6/22/79

1. Radioactive Releases Vd. 748, Auxiliary Building Fans Church OF seross HPR 228/222. W. Point Sources - Compressors Lead program continuing 16. Dome Monitor - Containment Survey (14" Penetration) - Jun Mirota action by Twes. Va. RCS Profile . 34 To. 67 tel nature. 2. Plant Status 325 - 375# V6. Containment Water Level 289.67 (0400Am) 250 ™ ± 25 1717 magnaring & Reactor Building Pressure & may press - run RR longer than an I'll stayed a same. Elect Checks - Critical Equipment 250 gho period.

Vc. Plant Operations Schedule 7 DHY Vc. Plant Operations Schedule Z Press/Vis. Control recois to be tested of Vsample Results - Control recois to be tested of Keep pHe ~ 8.0 prove its reliability The BYW on p.H. Keep pHC~ 8.0 4. Pre-operational Testing

Working Quality bump completed Tomorrow

Va. Tank Farm

Continuing to notify that a street on the form of the Trouble to rump d. RCS Pressure/Volume Control

Turnover for Testing

Set N. Marster Marster

Local Secretary on tainh

Color Charles of the Control

Color Charles of the Color seals review. Must live to endurer to fil guerator. Set Ne present regulator No feeling but s. 6/29 Completed by 7/29 Construction Status get ready. Alternate Decay Heat Removal • System Tie-Ins Available for Met-Ed Acceptance 7/15 (Currently under study) • Valve Pit Concrete Work ann 277 Stegging area, flood protection

Lampling system - flushing providure - in nec

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6.	Provide a judgment on sample data concerning the validity of samples taken.	Rusche

PLANT OPERATION STAFF.

Task	Description	Priority	Expected Completion	Status	Task Coord.
1.	Plant Status	A-1	On-going	Solid at approx.	•
2.	OTSG "B" Long-Term Cooling	C-1		GPU hold on filling "B" OTSG and cutting into system.	
3 .	Obtain RCS Sample (Primary letdown). Obtain PZR Sample, and bleed tank samples.	C-1	On-going	RCS Pressure continue sample.	Hetrick
4.	Erect high radiation doors in Auxiliary Building.			Door survey to be made to iden- tify any addi- tional problems.	Shovlin
5.	RB Sump Level	A-1		Convene group if water level elev. reading is 290.5.	Kunder
6.	Provide frequency of DH-V2 motor meggering.	A-1	On-going	Obtaining daily motor megger readings/sw-box reading.	Bensel .
7.	Current leak rate	· A-1		6/15, 0330; 495 gpm	
8.	Pressure Volume Control System			B&R will complete engr. for remote operation in Control Room.	
9.	RCS Pressure Control			Procedure needed for transition from present make- up and let-down system to new Pres. Vol. Control	
			,	System	
				2007 28	

PLANT MODIFICATIONS .

Task	Description	Priority	Expected Completion		Task
1715		ILLUILLY	Completion	Status	Coord.
WG-1	Install AB-FHB Filter System.	A-1	Punch list items to be completed.	System operational 5/11.	Shubert
JG-2 (L-1)	Decon. water in AB using EPICOR ion exchange process.	A-1 .	Punch list- items to be completed.	Turned over for test 5/23.	Lacy/ Fricke
WG-6 (L-2)	Install storage vessels in Fuel Pool "A".	A-1	Turn over to be 6/22-		Gibson
WG-12	Ventilation filtration system for decay heat pits.	A-1	7/12		Shubert
TS-3C	Develop complete package for long-term cooling OTSG "B".	C-1	Punch list items to be completed.	Completed 5/2	Jordan/ Lanza
TS-6B	RCS pressure control system.	C-1	Complete by 6/19.	Turnover to test 6/19.	Miller/ Lilly
TS-14	Shielding for decay heat pump.	C-2	7/5 . ~ ~ ~	Turnover for test 7/5.	Lieberma
TS-15	Westinghouse ADRR.	. C-1	Turnover for test 7/3.	See Westinghouse schedule.	
WG-19	New Sample Sink-Unit 2 .	•	Turnover for test 7/20.	EQ!'s on hold for re-eval. of criteria- long-term in- steam of short- term use.	Barrett/ Fricke
				Decon model room 6/13.	
		·			
				hanz 282.	
		•			

Westinghouse

Task	Description	Priority	Expected Completion	Status	Task Coord
8-15	ADHRS Installation	^ C-1	7/15 * *	Completion date	
	Westinghouse Engineering Design Complete	C-1	6/25 (As Builts)	currently under study. 95% Complete	
	Assemble ADHR Skid	C-1 ·	• 6/30	Mech. 100% complete, Elect. 85% complete.	
•	Assemble CCW Skid	6-1	6/30	Mech. 100% complete, Elect. 85% complete.	
	Receive Control Trailer			On-Site	
	Install Panals & MCC in trailer	C-1	6/30		
	Complete Installation of Pipe Penetration Assemblies	C-1	Completed 6/15	100%	
	Cut 12" Header and Weld Weldolet	C-1	6/24 - 6/29	On hold.	
	Cut: 10" Header and Weld Weldolet Channel A	C-1	6/24 - 6/29	On hold.	
	Cut 10" Header and Weld Weldolet	C-1	6/24 - 6/29	On hold:	
	Complete Fit up and welding of inside piping (total of 42 field welds).	C-1	6/25 .	In progress.	
	Complete Fit up and welding of outside piping (total of 15 field welds)	C-1	Open .	Dependent upon valve pit constr.	
	Turn over to Met-Ed (Acceptance Test)		7/15 *		
		•			
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WASTE MANAGEMENT GROUP

Task	• Description	Priority	Expected		Task
•		FEIGEIEV	Completion	Status	Coor
-7	Design, installation, and operation of EPICOR for Unit 2.	B-1			
	See Plant Modifications (MG-2)		· ·		
-2	Design, installation, and operation of emergency surge tanks (tack farm) in Unit 2 "A" Fuel Pool.	· B-1 .			
	See Plant Modifications (MC-6)				
-10	Pursue activities on processing Unit 2 water through CAP-GUN to insure availabel freeboard for Unit 2.	A-1	•	Normal process- ing- Unit 1 limits remain	Garca: Welle
-14	Evaluate waste gas vent header leakage problems and recommend fixes depending on results.	. A-1		is is. Norking per J. Seelinger's waste gas plan	McCon: Arthu: *Blan:
36	Investigate the effects which the operations associated with reactor plant long-term cooldown will have on discharge to the	C-1		of 4/17/79. In progress.	McGoe; Ross/
L-47	vaste systems. Related to L-6. Resolve sample lab requirements versus capabilities to support EPICOR I and II operations.	B-1		Lab requirements defined; procedures and equip- ment in place or on order. Lab procedures	Kraft
3-5	Change out AE/FH2 HVAC year	A-1		being developed by Rad Con. Eng.	•
	filter train charcoal bad.			"A" & "B" trains of the AB fil- ters and "A" train of FHB filters removed and replaced, units back in service. FHB "B" train in change-out	NeCo Edwa SWell
	" NRC contact	1.	no? 284	scheduled for 5/17. Daluge systems secured on all renewed filter trains. 7	Spent tray : to sto comple

WASTE MANAGEMENT GROUP

Task	* Dascription	Priority	Expected Corpletion		Task
'			Corpletion	Status [,]	Conre
-27	Develop sampling plan to assess AB waste for transuranic content. Insure that Mat-Ed Ops. coordinate sample require- ments with ORML to insure	B-2		Preliminary sample results obtained from ORML. Futher study involving	D. NI R. WI S. Kr.
•	satisfectory analysis results.		- :::	need for addi- tional samples is underway.	·
-29 ·•	Investigate reported water collection in the "a" fuel pool obtain samples and make plans for disposition. Also investigate the preoperation condition of the fuel pool from a leakage standpoint.	B-2		Water from Unit 2 const. Sample needed.	Willis
-35	Investigate the need for a design and construction task to erect a barrier between the	B-2		Alternate design Unit I	McCo:
	Unit 1 and Unit 2 Fuel Mandling Bldg. to enable Unit 1 operations with Unit 2 in processing Mode.			side to be submitted 4/27/79	*Barre
-3 0	Reactor Purge System Charcoal Filter Sample.	A-2	48	RB purge filter sample all ready for analysis. Scheduled week of 5/20.	NeCor *Colli
3-41	Davelop filter management strategy.	B-2 		Standard proce- dures to sample charcoal systems in review.	NeCor
	* NRC contact				
		•	•	inn7 285	
		BILL HE WAS SOUNDED.			

WASTE MANAGEMENT GROUP

Task	Description		Expected		Tasl
	Description	Priority	Completion	Status	Cool
-42					005
1	Develop a program to assess	B-2		Four-part	McCo
	and monitor I release sources.			approach:	McCo
				1. BER to coz-	Mont:
				plete review	1-1-
				of release	CI
			•	candidates.	Pe.
				2. Pursue a ···	
				tracer progree to	
				find leak.	
				3. Pursue an	
				zir monitor-	
				ing program	
			• • . •	with SAI/ EPRI to plot	
				. I levels.	
				4. Review local	
		•		ventilation	
				. conditions	
				to verify flow distri-	
				· butions.	
L-11	Investigate/develop process for	B-3			
	elicinating Unit 2 water in .			Proposal to be	Spid
	RCBT/s. Process planning for			received from chan-nuclear	#Well
	Units 1 and 2. Design (con- ceptually) a waste processing			5/4/79.	
	System for Unit 2 High Level				
	Liquid Wastes.				
L-20	0		•		
2-20	Cotain a level measurement and . a sample of water from the RB	B-3 .		Measurement	Ros
	sump and basement.	4		using Heise	±Ct=
			•	Gauge being	
				explored.	
L-30	Develop plan for radiation	B-3			
	Survey in Auxiliary and Fuel Mandling Bldg.				=c0
					*Stc
3-4	High level solid waste disposal	E-2			
	investigation.			In progress.	Pas
					Edt:
					#Wel #Col
	A NRC contact				
				nnn 286	
		CONTRACT THE			
	1				

WASTE MANAGEMENT CROUP

Hi di	emp. on site storage for Demin. iners - Design. igh level solid waste isposal investigation. xpand Solid Waste Disposal tudy to include the design f a temporary on-site storage acility for demineralizer iners while awaiting casks.	B-2 B-2	Completion Final storage proposal by CA: Being assessed by UMA.	In progress. Final storage proposal presented by GAL. Data to be assessed	Pass Edu *Vie *Co N.K C.E
Es of	isposel investigation. xpand Solid Waste Disposal tudy to include the design E a temporary on-site storage acility for demineralize:			Final storage proposal pre- sented by GAI. Data to be assessed	H.K C.E
of fa	tudy to include the design f a temporary on-site storage acility for demineralize:	B-2		proposal pre- sented by GAIL Data to be assessed	
				The second secon	
		•		by WMA.	
		nn07	787		
	RC contact	•			
		•			
		•			