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TECHNICAL WORKING GROUP

1100

6/8/79

1. Agenda, 6/8/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items Technical Working Group 1000, 6/5/79
5. Task Lists

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A G E N D A

TECHNICAL WORKING GROUP

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6/8/79

1. Radioactive Releases

- a. 748, Auxiliary Building Fans
- b. Point Sources
- c. Dome Monitor - Containment Survey

2. Plant Status

- a. RCS Profile
- b. Containment Water Level (Procedure Discrepancy)
Elect Check - Critical Equip
- c. Plant Operations Schedule
Pressurizer Solid Operation
Condensate Pumps Vibration
Sample Results
- d. Auxiliary Bldg. Cleanup Effort

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. Preoperational Testing

Estimated Completion

- a. Tank Farm (Zero Leak Testing)
- b. OTSG "B" Long-Term Cooling
(Readiness to operate)
- c. EPICOR (CAP-GUN II)

5. Construction Status

Estimated Completion

- a. RCS Pressure/Volume Control
Turnover for Testing 6/8
- b. Alternate Decay Heat Removal
System Tie-Ins 6/25

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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

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6/5/79

| <u>ITEMS</u> | <u>ACTION</u> |
|---|--------------------|
| 1. Brief R. C. Arnold on staging of existing waste generated by Cap Gun I and other waste storage. | Rusche |
| 2. Improvements to the plant site need to be considered in all planning/scheduling efforts. | All |
| 3. Rad Waste Management to provide a detailed plan to evaluate the potential activity release paths and monitoring program to be implemented at $\geq 0.5\#$ containant pressure. | Rusche |
| 4. Provide guidance on the control of "A" OTSG steam bypass valve in light of current operational data by 6/8 meeting. | Wilson |
| 5. Provide a schedule to R. C. Arnold for the resolution of all engineering analysis problems that remain outstanding by 6/8 meeting. | Wilson |
| 6. Resolve discrepancy in containment building level determination procedure. | Wilson/ Herbein |
| 7. Provide integrated list of components by level within containment by 6/7 and identify the next critical component above DHV-1 & 171. | Wilson |
| 8. Evaluate alternate feed paths to OTSG by the use of the aux. feed pumps and the main feed nozzles. (hard piping) | Wilson |
| 9. Sample "A" bleed tank and send for analysis 6/5. | Hetrick |
| 10. Sample and send for analysis the RCS sample 6/7. | Hetrick |
| 11. Provide Tritium results of the RCS and the worst bleed tank (B&W ORNL-Split). | Rusche/ Hetrick |
| 12. Provide recent Strontium results of the RCS. | Hetrick |
| 13. Provide most recent "B" OTSG analysis. | Hetrick |
| 14. Determine who is or should be reviewing both past and current chemical/radiochemical data for trends and action. | Wilson/ Hetrick |

| <u>ITEMS</u> | <u>ACTION</u> |
|---|--------------------|
| 15. Complete the analysis of loss of pressure protection by going to 300# by 6/8. | Wilson |
| 16. Provide schedules for completion of preop. testing of the a)OTSG "B" long term cooling b)tank farm & c)EPICOR II. | Rusche/ Herbein |
| 17. Identify Westinghouse what is needed in the turnover package for the Alt. Decay Heat Removal System Tie-Ins & Skid Mounted Equipment. | Herbein |
| 18. Provide a means of reviewing ECM's to the current recovery systems. | Logan |

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| <u>RELEASES</u> | <u>0500 6/6/79</u> | <u>0500 6/7/79</u> | <u>0500 6/8/79</u> |
|-----------------|------------------------|--|------------------------|
| 748 | 2.61×10^{-10} | 1.80×10^{-8} | 2.93×10^{-8} |
| 219 | 9.67×10^{-10} | 1.90×10^{-11} (Not an effluent) | ----- |
| Inlet | 4.91×10^{-10} | 4.04×10^{-10} | 4.90×10^{-10} |
| Train #1* | 3.68×10^{-12} | 2.70×10^{-12} | 2.23×10^{-12} |
| Train #2* | 1.57×10^{-12} | 9.40×10^{-13} | 2.79×10^{-12} |
| Train #3* | 4.01×10^{-12} | 2.30×10^{-12} | 2.70×10^{-12} |
| Train #4* | - | 1.30×10^{-13} | 6.37×10^{-13} |

REACTOR COOLANT SYSTEM PROFILEPLANT STATUS

| | <u>0500 6/6/79</u> | | <u>0500 6/7/79</u> | | <u>0500 6/8/79</u> | |
|----------------|--------------------|--------|--------------------|--------|--------------------|--------|
| | A | B | A | B | A | B |
| Th | 160.7 | 162.6 | 160.0 | 161.8 | 160.0 | 161.3 |
| Tc | 150.7 | 104.2 | 149.2 | 104.2 | 150.2 | 104.9 |
| ΔT | 10.0 | 58.4 | 10.8 | 57.6 | 9.8 | 56.4 |
| Tstm | 148.1 | 129.2 | 147.8 | 129.2 | 147.2 | 128.8 |
| PZR Level Cal. | SOLID | | SOLID | | SOLID | |
| DVM | - | | - | | - | |
| R.C. Press. | Heise - - | - - | - - | - - | - - | - - |
| | DVM - 325 | 338 | 349 | 346 | | |
| S/G Level | 414" | 96.5% | 415" | 96% | 407" | 96% |
| Turb. B/P | 49% | Closed | 60% | Closed | 45% | Closed |
| I.C.T. | High | 282.4 | 281.2 | 280.0 | | |
| | Min. | 144.3 | 143.4 | 143.5 | | |
| M.U. Temp. | | 130 | 130 | 130 | | |

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PLANT OPERATION STAFF

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|------|--|----------|--------------------------------------|--|--------------------|
| 1. | Plant Status | A-1 | On-going | Solid at approx. 350 psig. | |
| 2. | Get recommendation on running OTSG "B" | C-1 | . | Op. instr. to be provided by B&R for pump & demin. ops. | |
| 3. | Obtain RCS sample (Primary letdown). Obtain PZR sample, and bleed tank samples. | C-1 | 6/8 (AM) | | Hetrick |
| 4. | Isolate Unit #1 and #2 sample stations. | | 6/11 | See Plant Mods. | Limroth/ McCoey |
| 5. | Erect high radiation doors in Auxiliary Building. | | | Doors are being cut for pipe penet. HASPS are being added. | Shovlin |
| 6. | RB Sump Level | A-1 | Revised gauge installation complete. | Reviewing calculations. | Kunder |
| 7. | Provide frequency of DR-V2 motor meggering. | A-1 | | Obtaining daily motor megger readings/sw-box reading. | Bensel |
| 8. | Current leak rate | A-1 | | 6/4, 1200; 495 gpm | |

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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 5/11. | Shubert |
| WG-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 6/9. | Repairing stand-pipes. | Gibson |
| WG-11 | Water Chemistry Lab for use with CAP-GUN (WG-2). | A-1 | Punch list items to be completed. | Turned over for test 5/23. | Tolle/ Rao |
| WG-12 | Ventilation filtration system for decay heat pits. | A-1 | | Turned over for test 5/26. | 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 6/8. | Turnover to test 6/8. | Miller/ Lilly |
| TS-14 | Shielding for decay heat pump. | C-2 | | Turned over for test 5/28. | Lieberman |
| TS-15 | Westinghouse ADHR. | C-1 | Turnover for test 6/25. | See Westinghouse schedule- | |
| WG-19 | New Sample Sink-Unit 2 | | Turnover for test 6/11. | ECM's on hold for re-eval. of criteria-long-term instead of short-term use. | |

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Westinghouse

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|-------|--|----------|---------------------|--|-------------|
| TS-15 | ADHRS Installation | C-1 | 6/25 | See below | |
| | Westinghouse Engineering Design Complete | " | 6/25 (AS BUILTS) | 95% Complete | |
| | Valve Pit Design Complete (B&R) | " | Complete | (W) Review Complete | |
| | Assemble ADHR Skid | " | 6/11 | Mech. 95% Complete, Elect 80% Complete. | |
| | Assemble CCW Skid | " | 6/11 | Mech. 95% Complete, Elect 80% Complete. | |
| | Receive Control Trailer | | | On-Site | |
| | Install Panels & MCC in Trailer | " | 6/16 | (1)MCC on-site Awaiting (1) MCC Complete | |
| | Install Isolation Box | " | Actual 5/20 | Complete | |
| | Core Boring (12 holes) | " | | Drilling completed 12 holes. | |
| | Complete Installation of Pipe Penetrztion Assemblies | " | 6/10 | Done after Core Drilling | |
| | Cut 12" Header and Weld Weldolet | " | | On Hold | |
| | Cut 10" Header and Weld Weldolet Channel A | " | | On Hold | |
| | Cut 10" Header and Weld Weldolet | " | | On Hold | |
| | Complete Fit Up and Welding of Inside Piping (Total of 42 Field Welds) | " | 6/25 | 1 Weld Complete | |
| | Complete Fit Up & Welding of Outside Piping (Total of 15 Field Welds) | " | Open | Excavation and support structure comp. (Dependent upon valve pit constr. | |

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 | L. W. Hard |
| LS.3 | Initial Reporting of Event. | 1 | On-going | Active | R. A. Leng |
| TM.23 | Reactor Coolant System P/V Control. | 1 | . | Active | Cobean |
| TM.30 | Determine what BOP loads need backup electrical power. | 1 | On-going | Active | Capodanno Langenbac |
| TM.35 | Long-term plant instrumentation requirements (criteria) | 1 | On hold | | Capodanno Langenbac |
| AA 61 | Update SAR. | 1 | ? | Active | 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 | ? | | Croneberg |
| AA 80 | Analytical and Tech. Planning Support for updated procedures (EP-32, etc.) | 1 | ? | Active | J.A. Dani |
| AA 83 | Identify critical valves and instruments which may be damaged by high sump levels. | 1 | ? | Active | R. Long |
| AA 84 | Identify flow paths from the containment sump. | 1 | ? | 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 | ? | Active | Capodanno Langenbac |
| AA 1 | Letdown Flow Analysis (continuing curve development) | 1 | On-going | Active | Met-Ed Control R |
| 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 | Active | L. Hardin |
| LS 8 | Met-Ed Surveillance | 1 | On-going | Active | L. Hardin |
| LS 14 | Investigate reportability of radioactive material dumping in the landfill area of TMI of 5/16/79. | 1 | ? | Active | L. Hardin |
| LS 15 | Assist in the development of Radiological Effluent-Tech Specs | 1 | ? | Active | L. Hardin |
| LS 16 | Investigate obtaining a permit to dump in the landfill area. | | ? | Active | L. Hardin |

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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. See Plant Modifications (WG-2) | B-1 | | | |
| L-2 | Design, installation, and operation of emergency surge tanks (tank farm) in Unit 2 "A" Fuel Pool. See Plant Modifications (WG-6) | B-1 | | | |
| L-10 | Pursue activities on processing Unit 2 water through CAP-GUN to insure available freeboard for Unit 2. | A-1 | | Normal processing- Unit 1 limits remain as is. | 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 |
| 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-47 | Resolve sample lab requirements versus capabilities to support EPICOR I and II operations. | B-1 | | Lab requirements defined; procedures and equipment in place or on order. Lab procedures being developed by Rad Con. Eng. | Kraft |
| G-5 | Change out AB/FHB HVAC vent filter train charcoal bed. * NRC contact | 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. 71 | McConne: Edwards, *Weller Spent fil tray rem to storag completed |

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WASTE MANAGEMENT GROUP

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|------|---|----------|---------------------|---|--|
| 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 | | Preliminary sample results obtained from ORNL. Further study involving need for additional samples is underway. | D. Nitti R. Willie S. Kraft *J. Colli |
| L-29 | Investigate reported water collection in the "B" 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. | Williams/ *Barrett |
| 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. | McConnel Williams *Barrett |
| G-30 | Reactor Purge System Charcoal Filter Sample. | A-2 | | RB purge filter sample all ready for analysis. Scheduled week of 5/20. | McConnel *Collins |
| G-41 | Develop filter management strategy. | B-2 | | Standard procedures to sample charcoal systems in review. | McConnel |

* NRC contact

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WASTE MANAGEMENT GROUP

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|---------------|--|----------|---------------------|--|--|
| 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 McGoey/ Montgome SAI: Cline/ Pelitti Vollegu |
| 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-20 | Obtain a level measurement and a sample of water from the RB sump and basement. | B-3 | | Measurement using Heise Gauge being explored. | Ross/ *Cwalina |
| L-30 | Develop plan for radiation survey in Auxiliary and Fuel Handling Bldg. | B-3 | | | Open/ *Stoddard |
| S-4 | High level solid waste disposal investigation. | B-2 | | In progress. | Pastor/ Edwards *Weller *Collins |
| * NRC contact | | | | 0007 235 | |

WASTE MANAGEMENT GROUP

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|------|--|----------|---|--|--|
| S-5 | Temp. on site storage for Demin. Liners - Design. | B-2 | Final storage proposal by GAI. Being assessed by WMA. | In progress. | Pastor/ Edwards/ *Weller/ *Collins |
| S-4 | High level solid waste disposal investigation. | B-2 | | In progress. | M.K. Past C.E. Edwe *R. Welle *J. Colli |
| S-5 | Expand Solid Waste Disposal Study to include the design of a temporary on-site storage facility for demineralizer liners while awaiting casks. | B-2 | | Final storage proposal presented by GAI. Data to be assessed by WMA. | |

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* NRC contact