

5/15/79

file

1000-1

✓
TECHNICAL WORKING GROUP

1300

5/15/79

1. Agenda, 1300, 5/15/79 Technical Working Group
2. Radioactive Releases and RCS Profile
3. Top Priorities List
4. Action Items from 1100, 5/14/79, Technical Working Group
5. Task Lists

2006 321

A G E N D A

TECHNICAL WORKING GROUP

1300 5/15/79

1. Radioactive Releases

- a. 748, 219, Auxiliary Building Fans
- b. Vent Header and Drain Trunk
- c. Dome Radiation Monitor
- d. Measurement of Radiation Level Inside Containment

2. Plant Status

- a. RCS Profile
- b. Plant Operations Schedule
 - DHP 'B' Test
 - Cycle DHV-6
 - DHP 'A' Test
 - Draw Bubble in PZR
 - Bleed Tanks 'A' and 'B' Sample Results
 - Capping Auxiliary Building Vent Stack
 - Bypass Valve Adjustment

3. Pressurizer Solid Operations - Leak Rate Results

A & B M/U Pumps

. Construction Status

Estimated Completion

- | | |
|---|---------------|
| a. Tank Farm | 5/19 |
| b. OTSG 'B' Long term Cooling | 5/17 |
| c. EPICOR (CAP-GUN II) | 5/18 |
| d. RCS Pressure/Volume Control turnover for testing | Not Available |
| e. Aux. Diesel Generator | Complete |
| f. Alternate Decay Heat Removal System tie-ins | 6/1 |

| <u>RELEASES</u> | <u>1100 (5/13/79)</u> | <u>0900 (5/14/79)</u> | <u>1100 (5/15/79)</u> |
|-----------------|-----------------------|-----------------------|-----------------------|
| 748 | 7.7×10^{-9} | 3.7×10^{-9} | |
| 219 | 4.5×10^{-10} | 5.4×10^{-10} | |
| Inlet | 3.4×10^{-9} | 2.2×10^{-9} | |
| Train #1* | 5.3×10^{-13} | 1.8×10^{-12} | |
| Train #2* | 6.3×10^{-13} | 5.3×10^{-12} | |
| Train #3* | 2.7×10^{-12} | 1.1×10^{-11} | |
| Train #4* | 9.0×10^{-13} | 8.2×10^{-12} | |

REACTOR COOLANT SYSTEM PROFILE

PLANT STATUS

| | | <u>1100 (5/13/79)</u> | | <u>0900 (5/14/79)</u> | | <u>1100 (5/15/79)</u> | |
|-------------|------|-----------------------|--------|-----------------------|--------|-----------------------|---|
| | | A | B | A | B | A | B |
| Th | | 170.3 | 171.3 | 168.5 | 169.8 | | |
| Tc | | 157.5 | 100.1 | 156.3 | 99.2 | | |
| ΔT | | 12.8 | 71.2 | 12.2 | 70.6 | | |
| Tstm | | 156.0 | 126.4 | 154.4 | 123.2 | | |
| PZR LEVEL | Cal. | Solid | | Solid | | | |
| | DVM | - | | - | | | |
| | LT-3 | 297.1 | | Not Reading Correctly | | | |
| R.C. Press. | | 626 | | 646 | | | |
| S/G Level | | 400" | 94% | 413" | 93% | | |
| Turb. B/P | | 84% | Closed | 84% | Closed | | |
| I.C.T. | High | 308.1 | | 307.1 | | | |
| | Avg. | 192.0 | | Not Available | | | |
| M.U. Temp. | | 120 | | 128 | | | |

2006 323

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 |

2006 524

ACTION ITEMS

TECHNICAL WORKING GROUP MEETING

1100

5/14/79

Items

Action

There were no items assigned
at the Technical Working Group
Meeting on 5/14/79.

2006 25

PLANT OPERATION STAFF

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|------|---|----------|---|--|-----------------------------------|
| 1. | Obtain RCS sample (Primary letdown). | C-1 | None scheduled. | | Hetrick |
| 2. | Obtain MEC approval (Tie-in approval only). | C-1 | | Need ECM's 79 R2, 180 R0, 272 R1. | Kunder/ Faulkner/ Seelinger |
| 3. | SSRW pump, "C" repair. | C-1 | Comp. by 5/20. | | |
| 4. | Decay Heat System. | C-1 | Hydro "B" side Cycle DHV-6 after hydro. | Hydro, 5/15 | Toole |
| 5. | Remove water from "B" Fuel Pool. | B-1 | | | Kunder |
| 6. | Isolate Unit #1 and #2 sample stations. | | | Need new sample sink. | Limroth/ McGoey |
| 7. | Training on Diesel. | | In progress. | | Troffer/ Kunder/ Toole |
| 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 | AB "A" & "B" 5/19. FHB "A" 5/23. | | Kunder/ Hetrick |
| 10. | Synchronize grey diesel. | C-1 | | Completed Fast start 19.8 sec. | Toole |
| | Synchronize white diesel. | | Trip check white diesel relay. | 5/15/79 | Toole |
| 11. | Move filters out of Aux. Bldg. | B-1 | Complete by 5/14. | In progress. | |
| 12. | Repair DW-P-4A. | | Working 4A. | 60% complete. | |
| 13. | Repair SW-P-1B. | | Need new shaft. | Reqn. No. 201-1720 | Shovlin |

2006 309

PLANT OPERATION STAFF

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|------|---|----------|------------------------------------|---------------------|----------------|
| 14. | CO-P-1B repair. | | In progress. | | Shovlin |
| 15. | Install self-cooling on condensate pump 1A. | | | | Toole/ Gunn |
| 16. | Replace lights in Aux. Bldg. | | | Complete 5/15/79 | |
| 17. | Rebuild breaker for Cap-Gun. | | Breaker re-built, to be installed. | | Shovlin |

2006 310

PLANT MODIFICATIONS -

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|---|--|----------|--------------------------|---|------------------|
| WG-1 | Install AB/FHB Filter System. | A-1 | Complete by 5/15 | System operational 5/10; complete 5/15. | Shubert |
| WG-2 (L-1) | Decon. water in AB using EPICOR ion exchange process. | A-1 | Turn over 5/19 | | Lacy/ Fricke |
| WG-6 (L-2) | Install storage vessels in Fuel Pool "A". | A-1 | Turn over by 5/19 | Hydro 5/12. | Gibson |
| WG-11 | Water Chemistry Lab for use with CAP-GUN (WG-2). | A-1 | System complete by 5/17. | | Tolle/ Rao |
| WG-12 | Ventilation filtration system for decay heat pits. | A-1 | Turn over 5/26 | | Shubert |
| TS-13 | Install elec. heaters on Aux. Bldg. intake ducts. | A-2 | On hold | | Shubert |
| TS-3C | Develop complete package for long-term cooling OTSG "B". | C-1 | Turn over 5/17 | | Jordan/ Lanza |
| TS-6B | RCS pressure control system. | C-1 | Schedule being revised | Estimated completion 5/23. | Miller/ Lilly |
| TS-11 | Aux. diesel generators. | C-1 | Testing | Turned over for test | Gagliardo |
| TS-14 | Shielding for decay heat pump. | C-2 | Turn over 5/28 | | Lieberman |
| <p><u>NOTE:</u> Plant Modification Preliminary Schedule for Westinghouse A.D.H.R. System indicates 6/21/79 completion date.</p> | | | | | |

2006 311

WESTINGHOUSE

| Task | Description | Priority | Expected Completion | Status | Task Coord. |
|-------------|---|----------|-----------------------------|-------------|-------------|
| W (II.B) | | | | | |
| B&R (TS-15) | ADHR Installation (See Note): | | 6/1** | | |
| | Qualify wall penetration and grout mockup | C-1 | | No status | |
| | Assemble ADHR skid | C-1 | Complete by 5/25 | In progress | |
| | Assemble CCW skid | C-1 | Complete by 5/25 | In progress | |
| | Fit up elec. trailer | C-1 | Complete by 5/20 | In progress | |
| | Install Panel/MCC's in central trailer | C-1 | Start 5/21 Complete 5/25 | | |
| | Install penetration isolation box | C-1 | | | |
| | Core bore 12 holes in west wall | C-1 | | Not Started | |
| | Install pipe/cable penetration | C-1 | | Not Started | |
| | Install 8" suction pipe | C-1 | | Not Started | |
| | Install 6" pipe ("A" train) | C-1 | | Not Started | |
| | Install 6" pipe ("B" train) | C-1 | | Not Started | |
| | **Plant Modifications Schedule indicates 6/21/79 complete date. NOTE: Drilling of twelve (12) 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. Hardin |
| LS.3 | Initial Reporting of Event. | 1 | 5/15 to NRC. | Active. | R. A. Lenge |
| 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. | Update SAR. | 1 | ? | Draft received. | BSW |
| 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. Danie |
| 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 | BSR 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 Rm |
| AA 71. | Determine requirements to perform sample analysis locally. | 1 | ? | ? | |

2006 313

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. Piping installation slipping schedule to 5/19 comp. date. | 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 | 5/1 | 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/ *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 | | | | | |

2005 314

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 <u>W</u> 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/ Itchner/ *Collins |
| * HRC contact | | | | | |

2006 315

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 "E" 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/ Itchner/ 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/ Itchner/ Robison/ *Barrett |
| | * NRC contact | | | | |

2006 316

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 FHE 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 AE 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 317

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 | | | | |

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. | McConnell *Lee |
| G-41 | Develop filter management strategy. | -2 | | Planning started. | Morton/ Clue/ *Bland |
| G-42 | Develop a program to assess and monitor I release sources. | E-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/ Montgomer *Bland |
| * NRC contact | | | 2006 319 | | |

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/ *Cualina |
| 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/ *Earrett |
| | * NRC contact | | | | |

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