

NR 001

Common Q Phase 3 Status

USNRC Meeting

at Rockville, Maryland

December 21, 2000

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Topics

- Status of completion of the design work on PAMS and CPCS applications
- Status of the supplemental qualification testing
- Phase 4 implementation plans

Documents Issued - N

- I/O Simulator
 - System Requirements
 - Software Requirements
 - Software Design
 - Hardware Design
- Generic Flat Panel
 - System Requirements
 - Software Requirements
 - Software Design

Documents Issued (continued)

Documentation for Audit not Reviewed

- PAMS

- System Requirements
- Software Requirements
- Software Design Description

- CPCS

- System Requirements
- Software Requirements

- Common Q Programming Guidelines

Outstanding Documentation

- Flat Panel

- Hardware Design Spec. - 12/21/00

- CEAPDS

- System Requirements Spec - 12/31/00
- Software Requirements Spec - 12/31/00
- Hardware Design Spec - 1/31/01
- Software Design Spec - 1/31/01

Outstanding Documentation (continued)

- PAMS

- Hardware Design Spec - 12/31/00
- FAT Procedure - 1/15/01

- CPCS

- Software Design Spec - 1/31/01
- Hardware Design Spec - 1/31/01
- FAT Procedure - 2/28/01

Outstanding Documentation (continued)

- I/O Simulator
 - FAT Procedure - 12/27/00

Status

- Flat Panel Display
 - Real-time display engine is prototyped to use displays built with the Display Builder
 - Plant computer datalink prototype is complete
 - Prototype AF100 driver by the end of this year
 - Flat Panel H/W Prototype Received for Qual 1/25/01

Status (continued)

- Power Supply

- Finalize backplane/connector requirements - Completed
- Front End Module Design - Completed
- FE Module Prototype Manufacturing - Completed
- All Prototype Modules manufactured & tested - 12/31/00

- I/O Simulator

- I/O Simulator Assembly completed and staged
- I/O Simulator Software completion due 3/1/01

Status (continued)

- **Single Channel**

- Preliminary Single Channel staged.
- CPC Prototype Testing - December/January

- **PAMS Software**

- PAMS Coding Completed by 2/12/01
- OM/MTP Coding/Displays by 1/31/01
- FAT 4/2/01 - 4/16/01

Status (continued)

- CPCS Software

- CPCS Coding Complete
- CEAC Coding by 4/15/01
- OM/MTP Coding/Displays by 4/15/01
- FAT 6/2/01 - 7/2/01

- CEAPDS Software

- CEAPDS Coding Completed by- 4/15/01
- FAT 6/17/01 - 7/2/01

Supplemental Qualification Testing

- Equipment to undergo testing
 - PM646 Retest
 - Flat Panel Display
 - Power Supplies
 - Watchdog Timer
 - New AI Card
- EQ tests scheduled to be completed by 5/31/01
- Qual Summary Report due 6/30/01

Waterford CPCS

- RFQ expected this month
- Proposal prepared and ready for submittal
- Proposed delivery: 6/03

Palo Verde CPCS

- Proposal submitted
- Bid clarification meeting with Waterford attendance: 11/16/00
- Award: 12/00
- Deliveries:
 - 1st Unit: 3/03
 - 2nd Unit: 9/03
 - 3rd Unit: 4/04

BGE PAMS

- Proposal submitted
- Bid clarification meeting: 10/23-24
- Award: January 2001
- Deliveries:
 - 1st Unit: 16 months ARO
 - 2nd Unit: 19 months ARO

South Texas HJTCS

- RFQ received
- Proposal due 12/28/00
- Delivery schedule not defined yet

Other Common Q Projects

- Ulchin 5&6 DPPS - 2002 & 2003
- KEDO DPPS - 2004
- TWICE DPPS - May 2004
- O1 MOD RPS - September 2001