TENNESSEE VALLEY AUTHORITY
BROWNS FERRY NUCLEAR PLANT

UNIT 1 RESTART OVERSIGHT PANEL MEETING

December 7, 2005

Enclosure 2

Introduction

- Welcome to the first public meeting for the Browns Ferry Unit 1 Restart Oversight Panel

- Purpose
  - Review the project status
  - Discuss upcoming activities
  - Discuss challenges
  - Solicit feedback

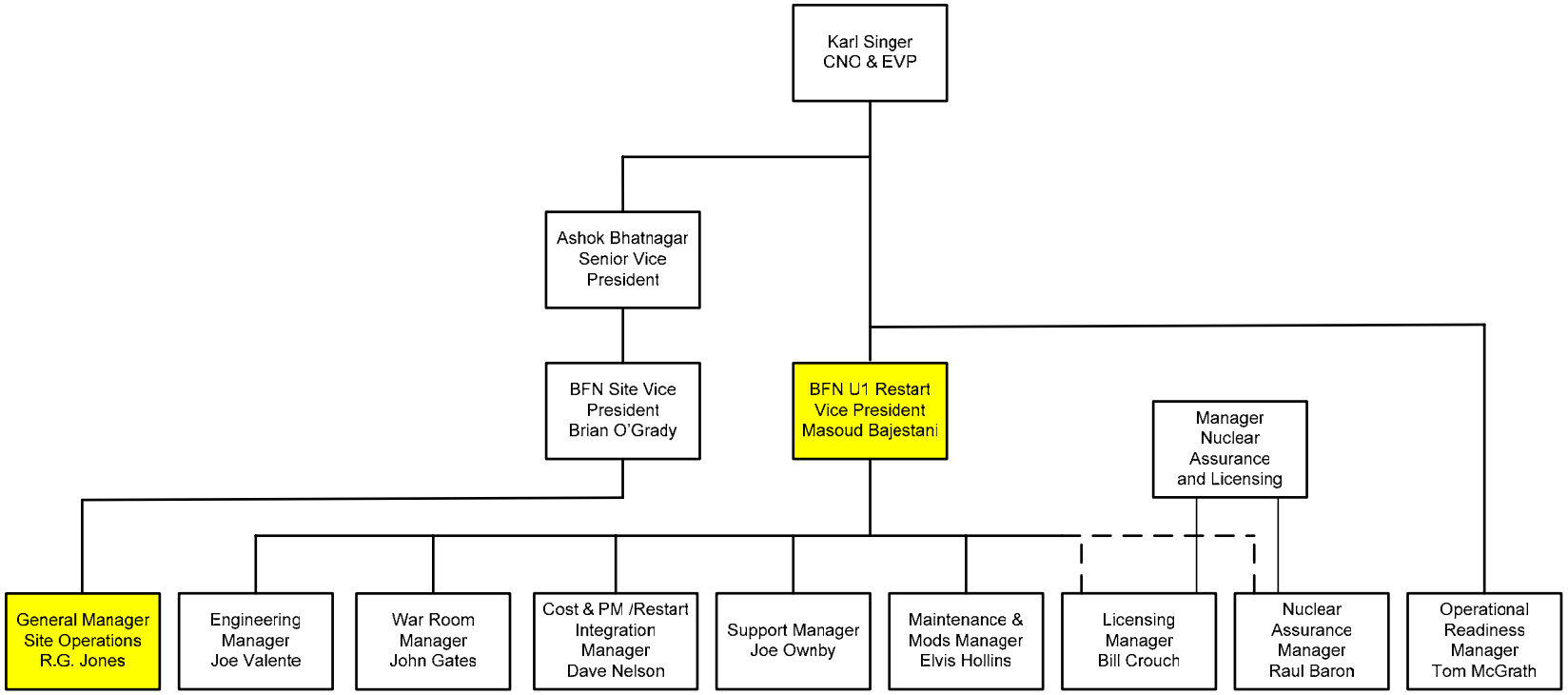
Agenda

• Introduction	B. O'Grady
• BFN Site	B. O'Grady
• Organizational Changes	B. O'Grady
• Unit 1 Overview and Schedule	M. Bajestani J. Valente E. Hollins
• Returning Systems to Service	R.G. Jones
• Regulatory Status	J. McCarthy
• Nuclear Assurance	R. Baron
• Conclusion	B. O'Grady

BFN Site

- Recent Organizational Change
- Three Unit Operation
  - All three units operationally the same
  - Site staffing plan
  - New simulator
  - Status of operational units
- Oversight
  - Operational Readiness program
  - Nuclear Safety Review Board
  - Nuclear Safety Oversight Committee
- Overall Unit 1 Restart Project 73% Complete

Organizational Changes

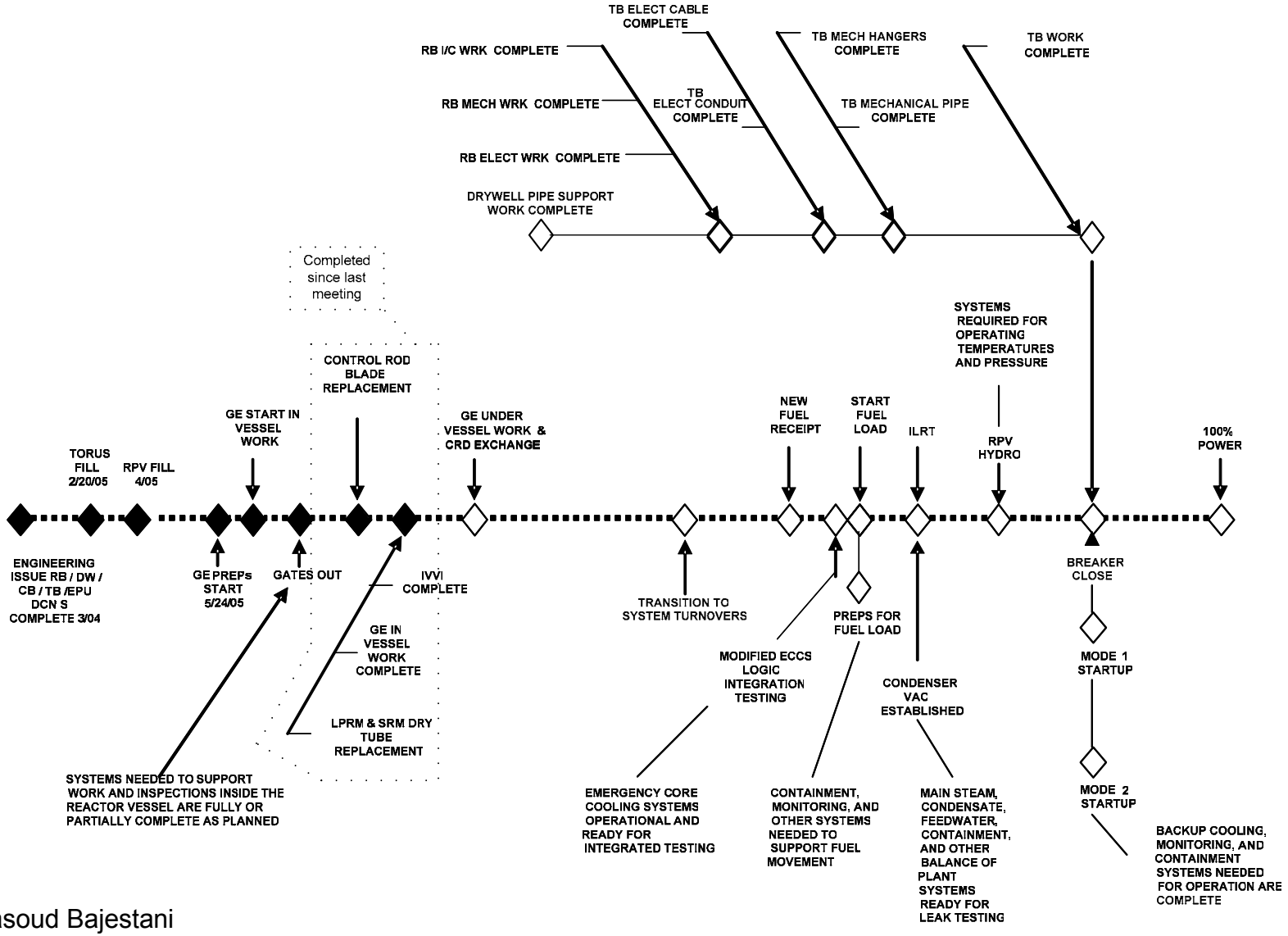


Changes highlighted.

Unit 1 Overview and Schedule

- On Schedule for Start-up May 2007

Significant Milestones

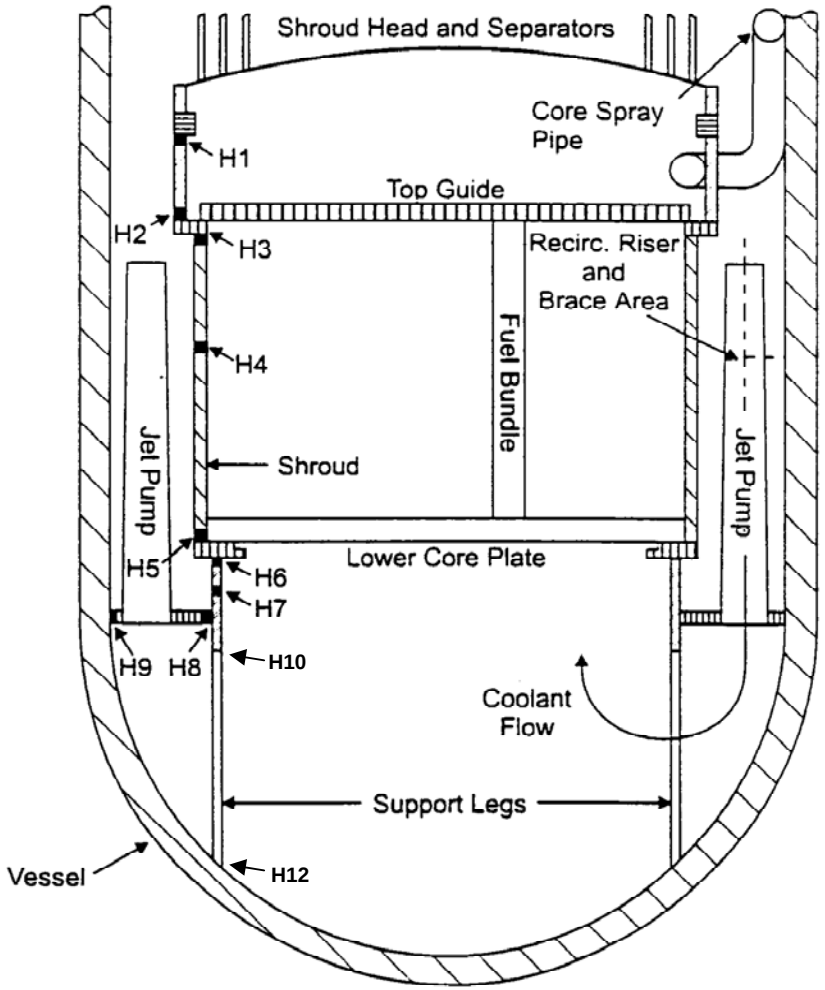


Unit 1 Overview and Schedule

- Engineering
  - Current status
    - Input for programmatic submittals completed
    - Input for two Technical Specifications pending NRC SERs on Topical Reports (DSS-CD and MELLLA+)
    - Overall 88 percent complete
  - Remaining activities
    - Primarily in a field support role
    - Closures
    - System testing, Surveillance Instructions and integrated testing
    - Completing System Plant Acceptance Evaluations (SPAE) and System Pre-operability Checklists (SPOCs)

Inservice Vessel Visual Inspections

- Typical Vessel Diagram



Inservice Vessel Visual Inspections

- Core Shroud
  - Ultrasonic Examination on 7 horizontal welds
    - Indications noted on H1, H2, H3, H4, H5, H6, and H7 welds
    - Acceptance criteria met and no modifications or repairs required
  - Visual Examination on 4 remaining welds
    - No recordable indications on H-8, H-9, H-10, and H-12 welds

- Jet Pump
  - Visual Examination on all 20 Pumps
  - Indications noted
    - Set screw gaps and tack welds
  - Disposition of these minor indications is in process

Inservice Vessel Visual Inspections

- Core Spray and Sparger
  - Visual Examination
    - Indications noted on sparger T-box weld
    - Indications being evaluated

- Steam Dryer
  - Visual examination of approximately 100% of the outside area
    - Indications noted:
      - Drain channel welds
      - Top panel horizontal weld
      - Tack welds on hold down rod, gussets, and jacking bolt
    - Drain channel weld repair in progress
    - Disposition of other indications in progress

Inservice Vessel Visual Inspections

- Top Guide
  - Visual Examination of the Top Guide Grid area
  - Minor indications noted
  - Disposition of minor indications is in process

- Feedwater Sparger
  - Visual Examination of the sparger nozzles (per NUREG 0619)
  - No Recordable Indication

Inservice Vessel Visual Inspections

- Other
  - Visual Examination of reactor pressure vessel interior per ASME Code Requirements
  - Access Hole Cover Modification
  - Core Plate Plugs
  - Shroud Head Bolts Replacement
  - Jet Pump Sensing Line Clamp Modification
  - Core Plate Hold Down Bolts

Unit 1 Overview and Schedule

- Current status
  - Modifications are 69% complete
- Major Work Completed Since Last Meeting
  - Completed Unit 1 HFA relay replacement
  - Completed reactor vessel IVVI original scope
  - Installed refurbished Component Cooling Water pumps and motors
  - Installed refurbished Reactor Recirculation pumps and motors
  - Performed stress improvement of welds
  - Refurbished and reassembled the 1A Control Rod Drive pump
  - Refurbished Control Rod Drive Hydraulic Control Units
  - Refurbished and reassembled the inboard Main Steam Isolation Valves (MSIVs)
  - Replaced Local Power Range Monitors (LPRMs)
  - Replaced Source and Intermediate Range Monitors
  - Replaced the 4KV breakers

Unit 1 Overview and Schedule

- Major Work In-progress
  - Cable tray, conduit and support installation
  - Control Rod Drive exchange
  - Control Room Design Review modifications
  - Core Spray and Residual Heat Removal room coolers replacement
  - Large and small bore pipe replacement
  - LPRM hard cable replacement
  - Pipe hanger installation
  - Refurbishment of outboard MSIVs
  - Replacement of 185 control rod blades
  - Switchyard breaker replacement and additions
  - Traveling water screen refurbishment
  - Upgrading Madison substation

Unit 1 Overview and Schedule

- Status of Major Commodities

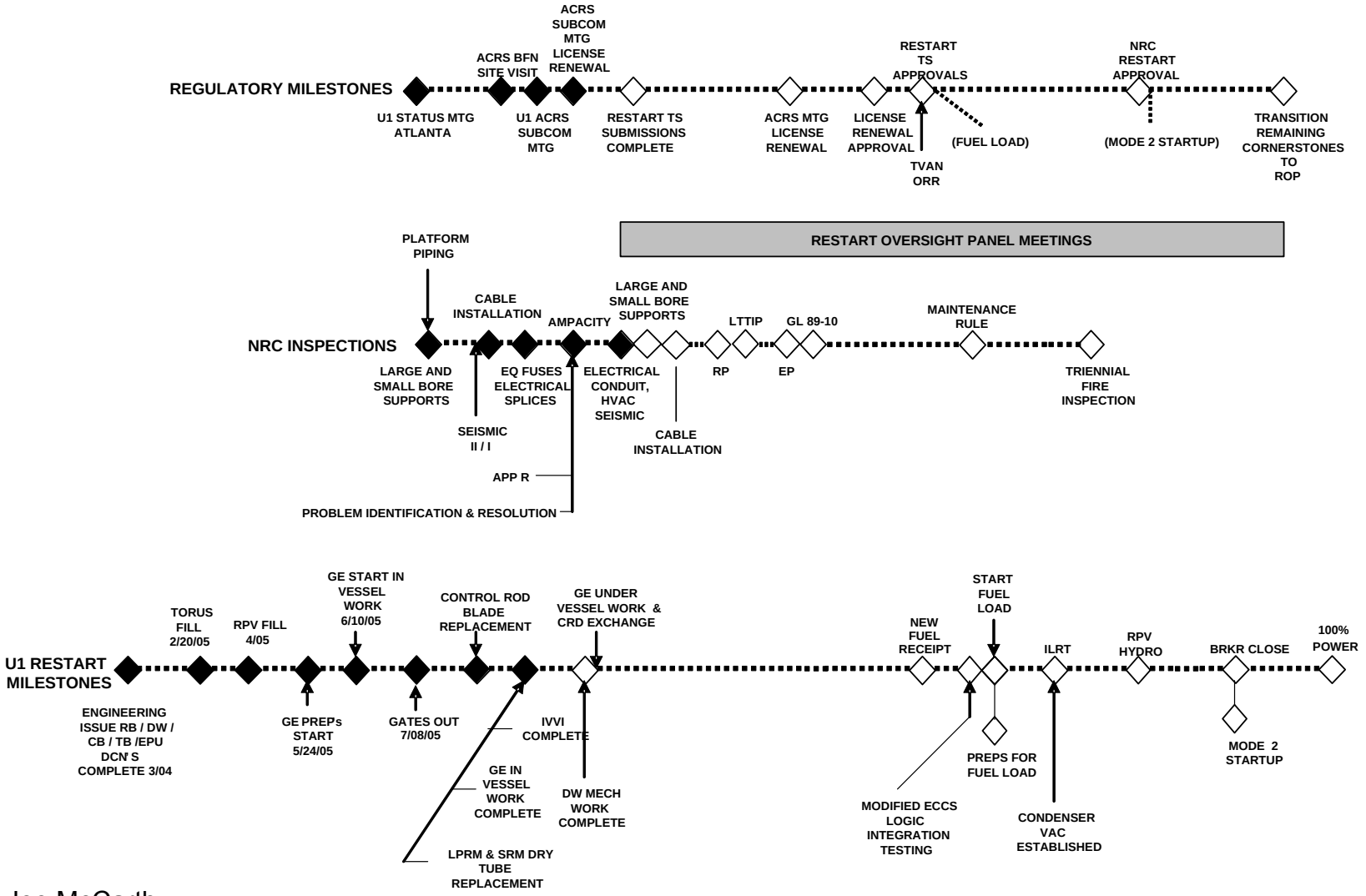
COMMODITY	INSTALLED SINCE THE 7/20/05 TVA/NRC MEETING	CURRENTLY INSTALLED*	END OF PROJECT TOTAL
Piping - Large Bore	2,342 feet	11,442 feet	15,267 feet
Hangers - Large Bore	168	1,136	1,741
Piping - Small Bore	2,122 feet	14,512 feet	28,136 feet
Hangers - Small Bore	757	3,500	6,167
Conduit	25,645 feet	123,675 feet	177,008 feet (33½ miles)
Conduit Supports	2,685	13,920	20,483
Cable Terminations	13,515	35,631	106,265
Cable	129,193 feet	257,759 feet	870,788 feet (165 miles)
Cable Tray	621	9,034	9,747
Cable Tray Supports	40	1,481	1,534

* Installed as of November 20, 2005

Returning Systems to Service

- System Plant Acceptance Evaluations
  - 34 completed
  - 27 scheduled in the next six months
- System Pre-operability Checklists (SPOCs) Phase I
  - 11 completed
  - 1 scheduled in the next six months
- System Pre-operability Checklists (SPOCs) Phase II
  - 8 completed
  - 2 scheduled in the next six months
- Residual Heat Removal Service Water Testing Completed
- Unit 1 / Units 2 and 3 Interface

Regulatory Status



Regulatory Status

- Unit 1 License Amendments
  - 21 amendments identified
  - 16 submitted to date
  - 2 submittals pending NRC issuance of Topical Report SERs
  - 5 approved by NRC
  - 6 on hold pending resolution of Method 3 instrument setpoint methodology

- Relief Requests
  - 5 relief requests submitted and approved by NRC
  - Risk informed ISI to be submitted for post-restart implementation

Regulatory Status

- Other Unit 1 Submittals
  - Regulatory Framework
    - Submitted December 2002
    - Approved August 2003
  - 82 programmatic and completion submittals identified
    - 29 submitted to date
    - 4 approved by NRR
    - 17 closed by Inspection Report
    - Quarterly status letter being used to notify NRC upon the completion of Bulletins, Generic Letters, TMI Action Plan Items, and Nuclear Performance Plan Special Programs
- Regulatory Challenges
  - Applicability of existing BFN Appendix R/Fire Protection SERs to Unit 1

Nuclear Assurance

- Focus Areas
  - Areas with noted improvement and reduced Nuclear Assurance attention
    - Welding, material control, coatings, piping/pipe supports, and Fire Protection
  - Continued Nuclear Assurance attention
    - Control of work, Mechanical and Electrical installation, testing, and system return to service

Conclusion