



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

April 10, 2015

MEMORANDUM TO: File

FROM: Robert Haag, Chief, 
Construction Projects Branch 3
Division of Construction Projects

SUBJECT: PUBLIC MEETING SUMMARY – WATTS BAR UNIT 2 SENIOR
MANAGEMENT MEETING

On March 26, 2015, the U.S. Nuclear Regulatory Commission (NRC) staff held a Category I public meeting with Tennessee Valley Authority concerning Watts Bar Nuclear Plant, Unit 2. The purpose of the meeting was to discuss the status of the Watts Bar Unit 2 construction project, including major milestones and potential challenges that may impact the project schedule. NRC senior managers participated in the meeting and were available to answer questions after the business portion of the meeting was completed.

The following NRC staff attended the public meeting:

1. Victor McCree, Regional Administrator, Region II (RII)
2. Bill Dean, Office Director, Nuclear Reactor Regulation (NRR)
3. William Jones, Director, RII, Division of Construction Projects (DCP)
4. Michele Evans, Director, NRR, Division of Operating Reactor Licensing (DORL)
5. Robert Haag, Chief, RII, DCP, Construction Projects Branch (CPB) 3
6. Scott Shaeffer, Chief, RII, Division of Reactor Safety, Engineering Branch 2
7. Jessie Quichocho, Chief, NRR, DORL, Watts Bar Special Projects
8. Christopher Even, Senior Project Inspector, RII, DCP, CPB3
9. Jared Nadel, Senior Resident Inspector, Watts Bar Unit 1, RII
10. Adam Wilson, Project Inspector, RII, DCP, CPB3
11. Eric Patterson, Resident Inspector, Watts Bar Unit 2, RII
12. Jeanne Dion, Project Manager, NRR, DORL, Watts Bar Special Projects
13. Joey Ledford, RII, Public Affairs Officer

Docket No.: 50-391

Construction Permit No.: CPPR-92

Enclosures:

1. List of Attendees
2. NRC Presentation Slides
3. TVA Presentation Slides

Contact: Chris Even, RII/DCP
404-997-4661

SIGN-IN SHEET

WATTS BAR PUBLIC MEETING

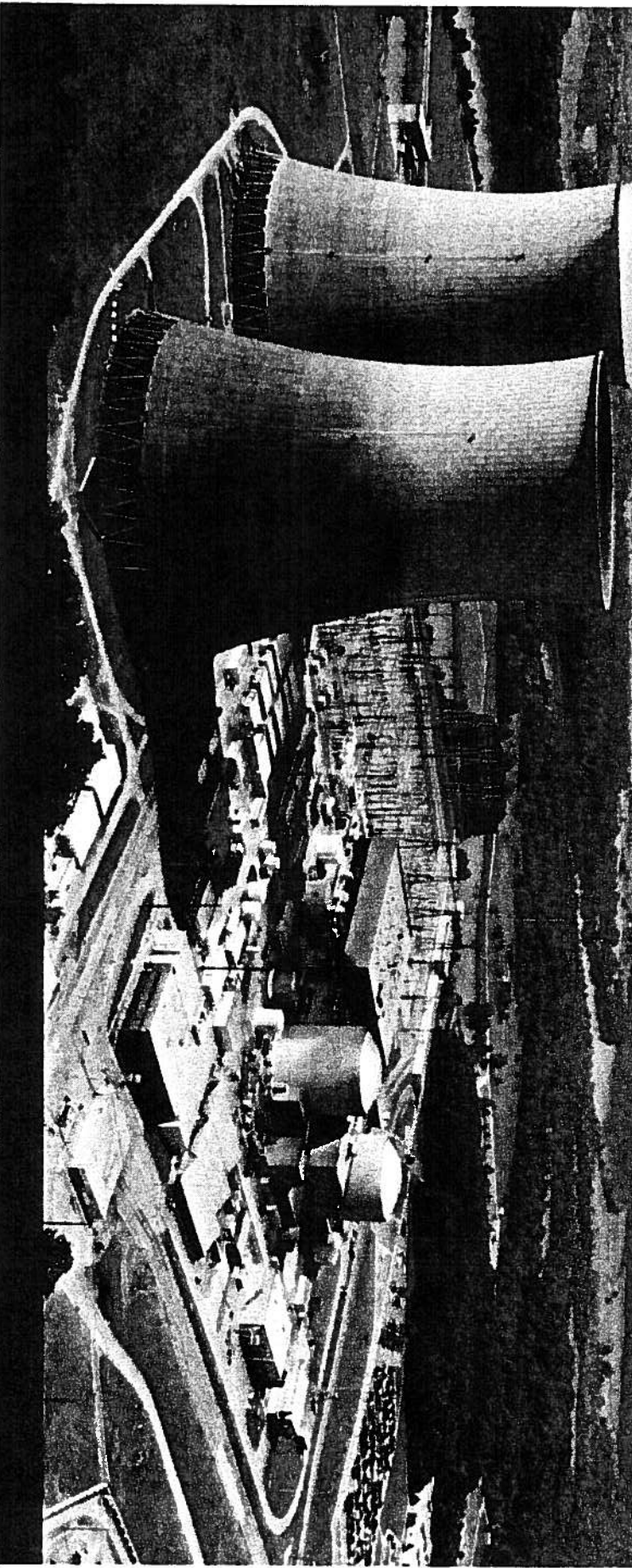
Date: 03/26/2015

Location: Athens Tennessee

Name	Company
Bob Sevilny	ATHENS UTILITIES BOARD
Pete Johnson	
Harry Pemberton	TVA
Ron Woody	Roane County Govt
Kay Whittenburg	TVA
JOE SHEA	TVA
FRANK KOONTZ	TVA
David Green	TEMA
Tom Trotter	McMINN Co. EMA
Mike Skiggs	TVA
Gordon Arent	TVA
Dave Lochbaum	Union of Concerned Scientists
Don Sater	TN Enviro Council
Geeta Johnston	BEST/MATER
SANDY KURTZ	Blue Ridge Enviro Defense League
GARY MASON	BREN/BEST/MATER
W. Swiggard	Cleveland
Mike Casner	TVA
Naren Fowler	Watts Bar/TVA
Mark Palmer	TVA
M David Riden	WBNZ Sun Technical Services
Joyanna Love	Cleveland Daily Banner
CHARLIE HALL	TEMA
Whiting S. Dalk	WBNZ BHT-Sun Technical

Public Meeting on the Watts Bar Nuclear Plant Unit 2 Project

**Nuclear Regulatory Commission
Public Meeting
Thursday March 26, 2015**



Public Meeting on the Watts Bar Nuclear Plant Unit 2 Project

Meeting Starts At 6 PM

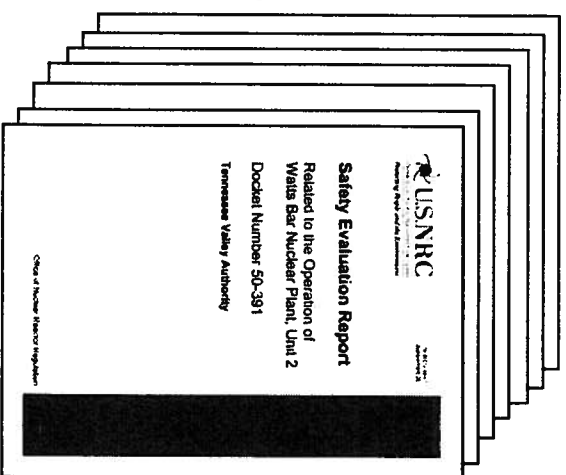
AGENDA

- Opening Remarks
- TVA Presentation
- NRC Presentation
- Closing Remarks
- Q&A, Public Comment
- Adjourn

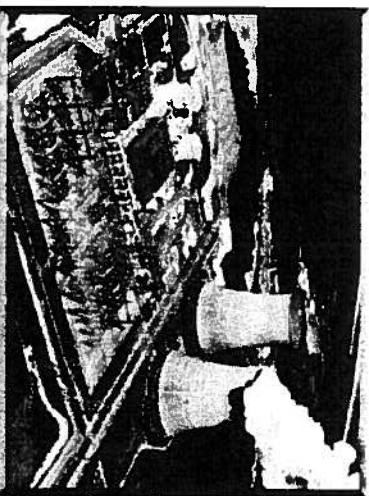
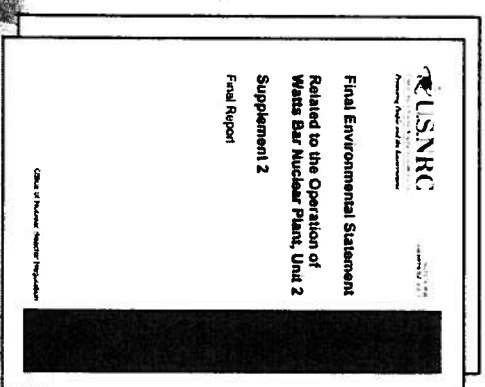
Environmental and Safety Review



- Operating License Review is near completion
- Advisory Committee on Reactor Safeguards Recommendation



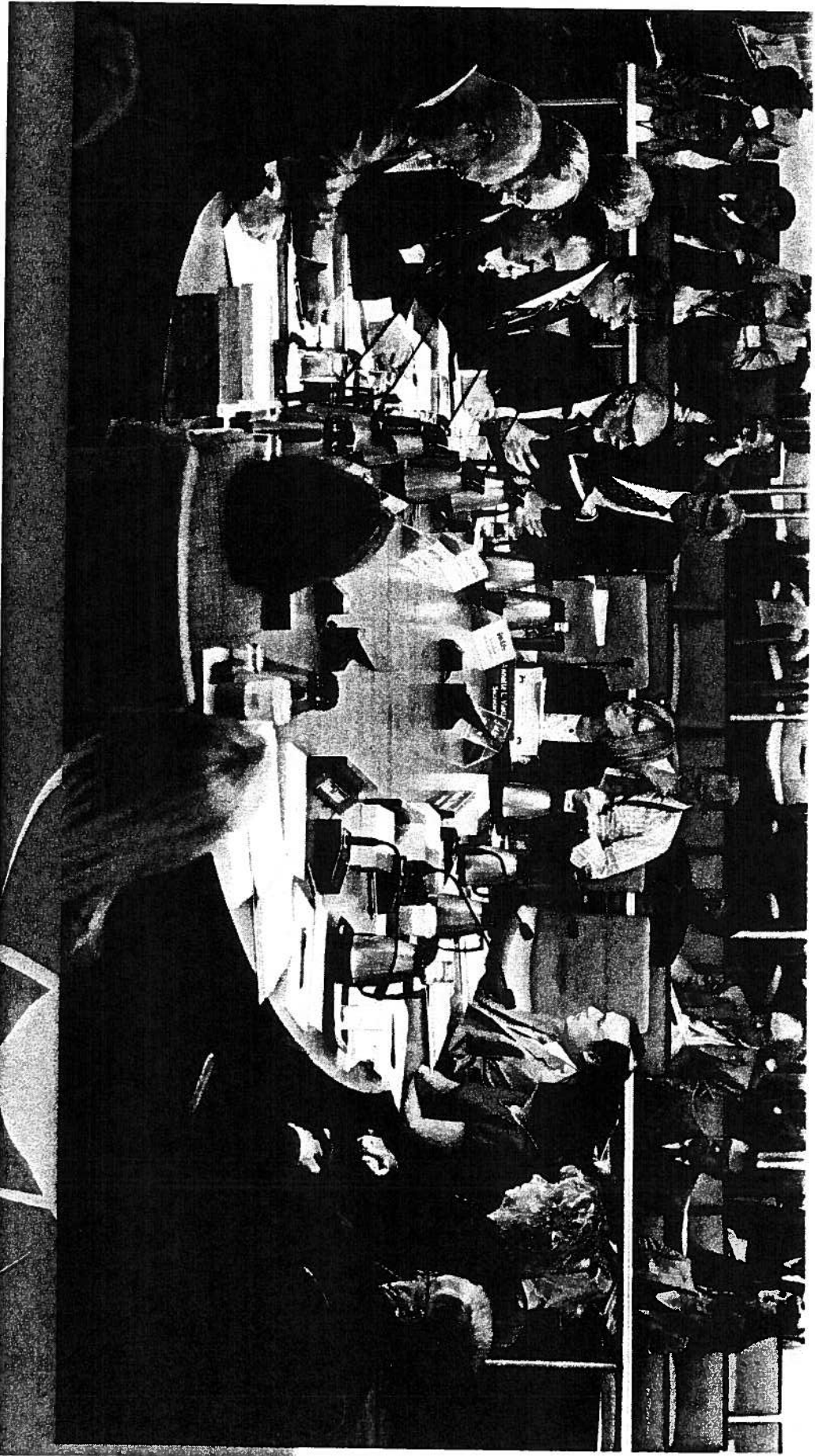
**Final Environmental
Statement Supplement 2
published 2013**



**Supplement 27 to Safety
Evaluation Report
published 2015**

Interactions with Stakeholders

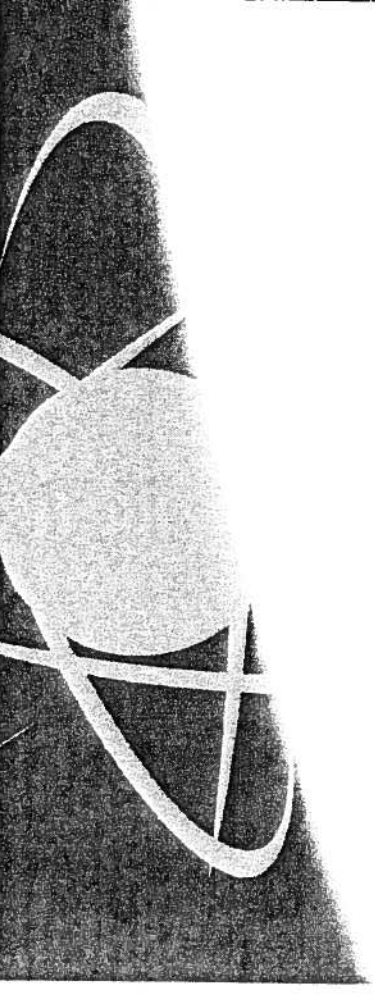
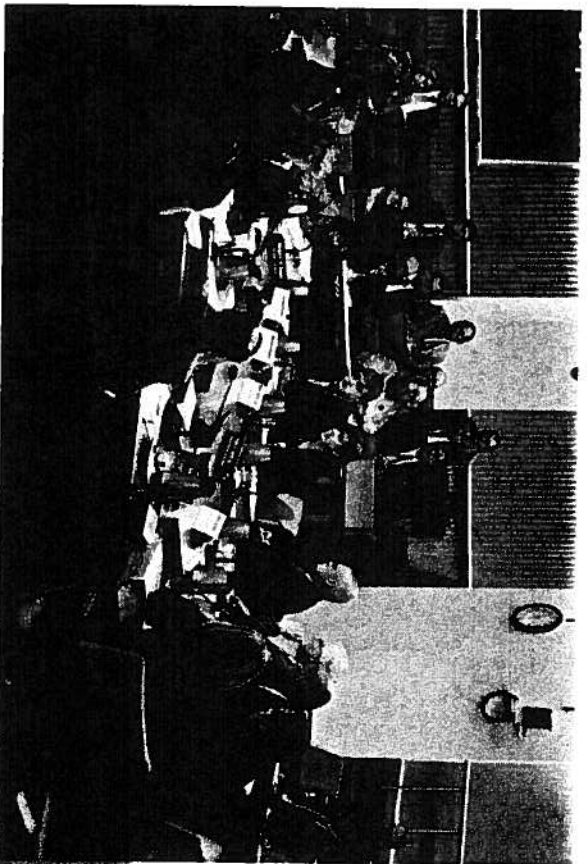

U.S. NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment



Remaining Licensing Items



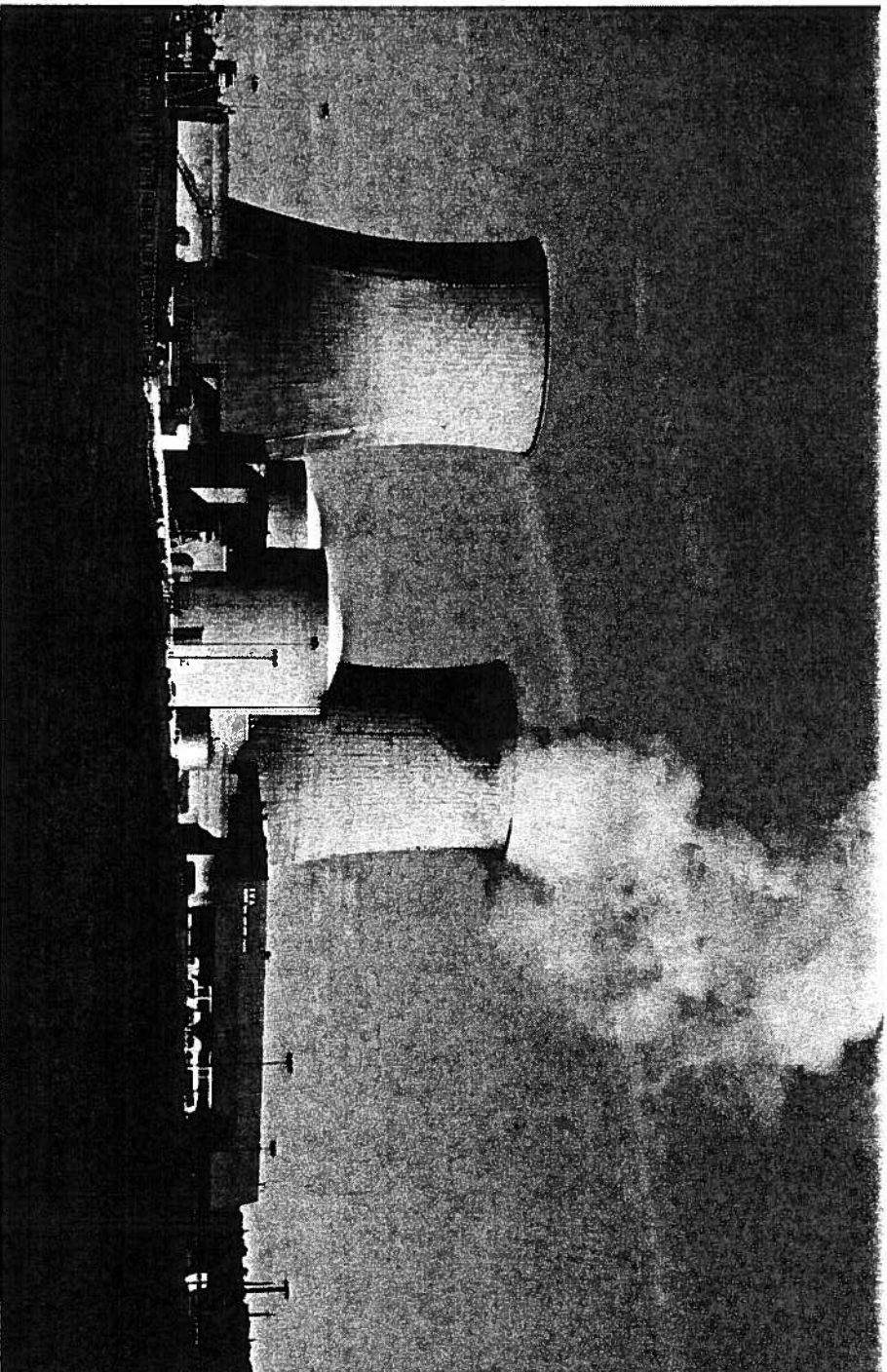
- Evaluation of Fukushima Orders Compliance
- Evaluation of systems used for dual unit operation and safe shutdown



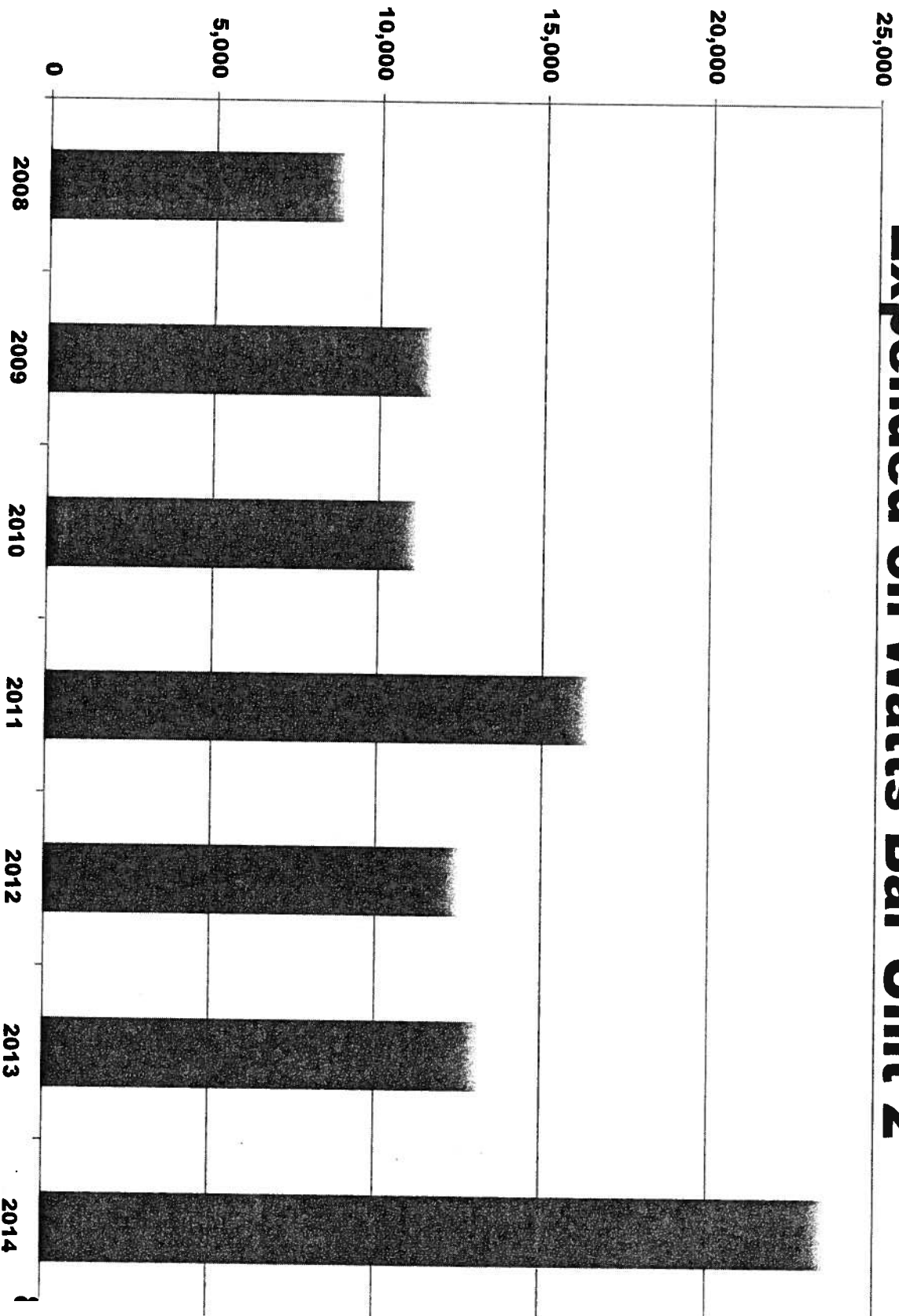


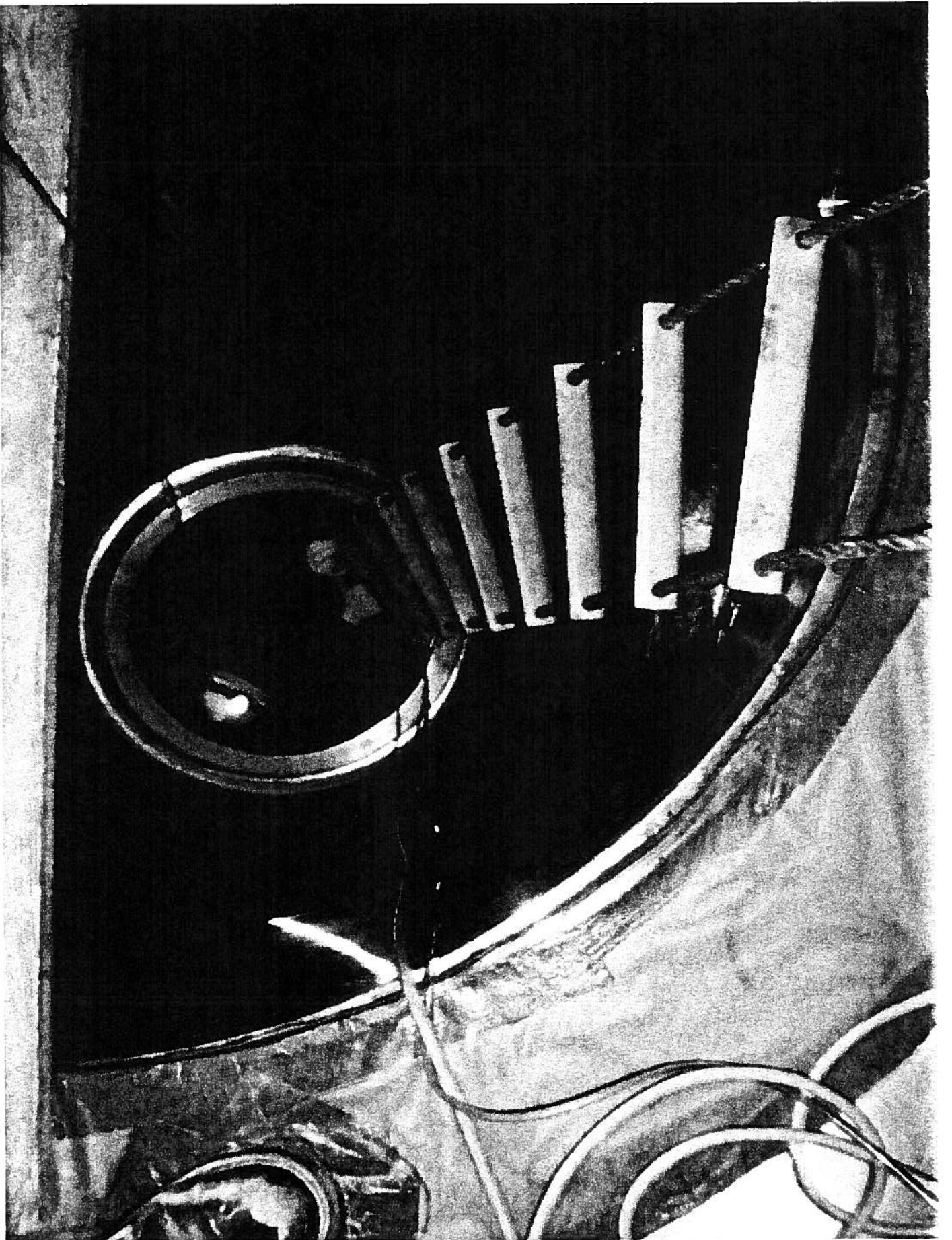
K S WALTZ

Construction and Testing Inspections

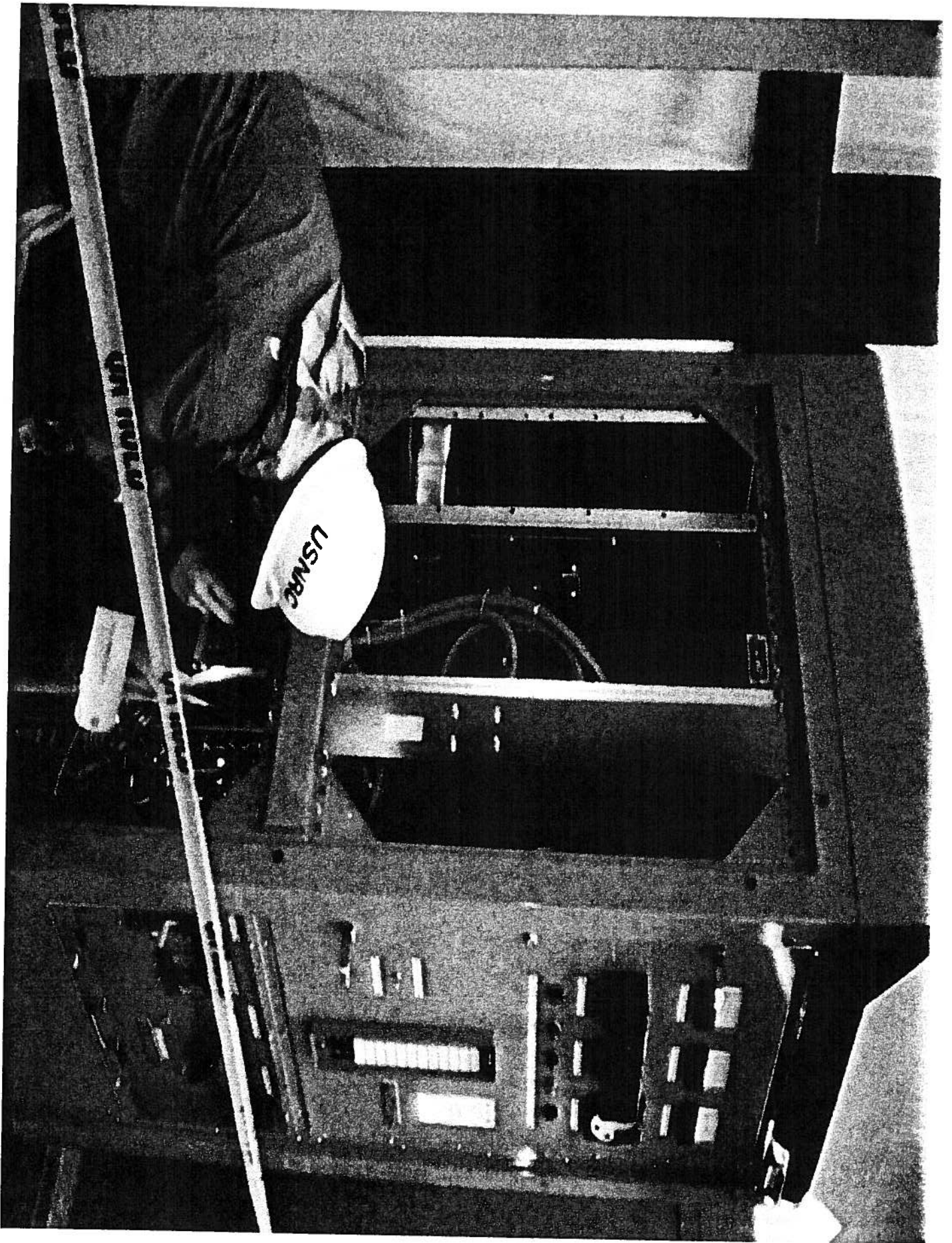


Substantial Inspection Effort Expended on Watts Bar Unit 2

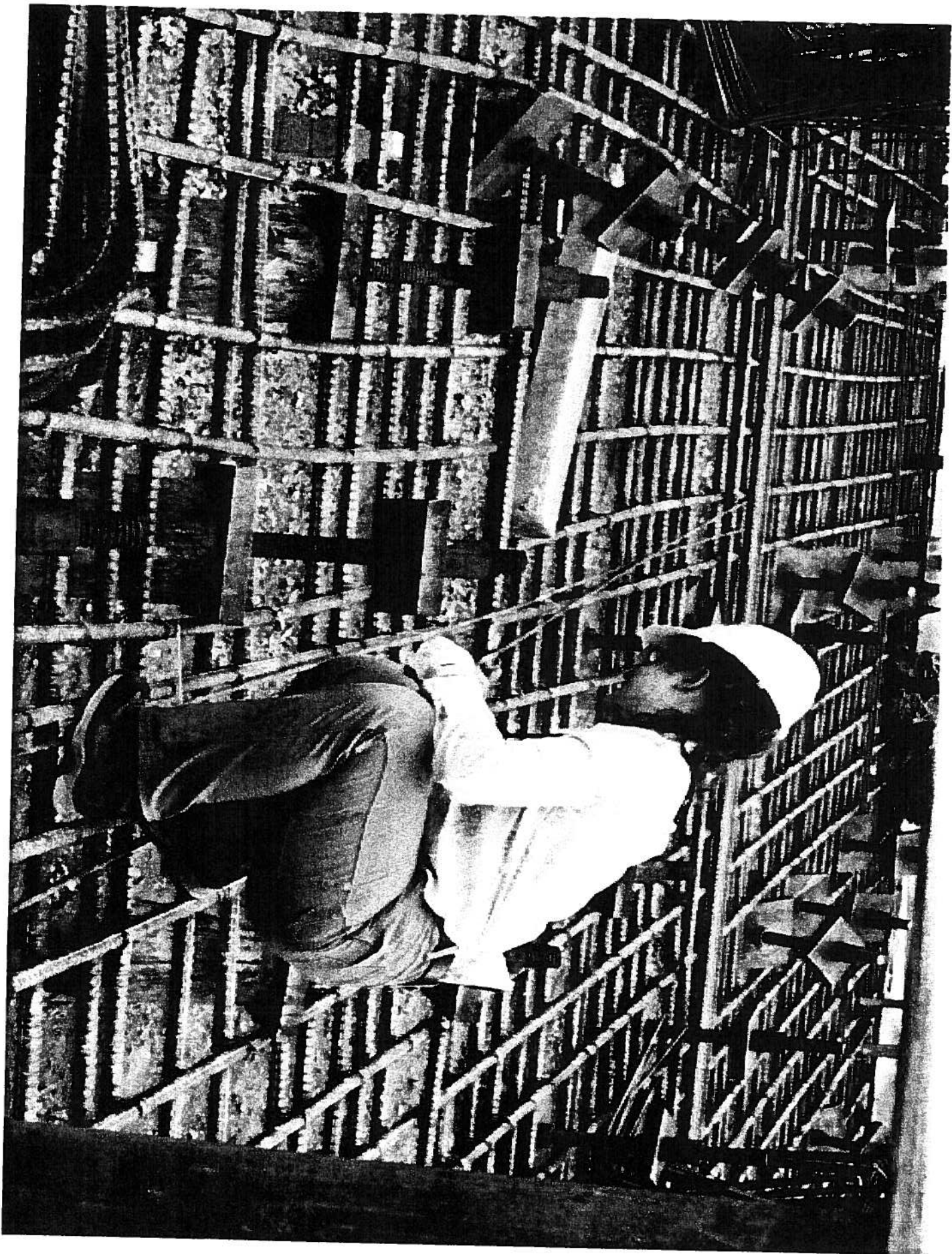




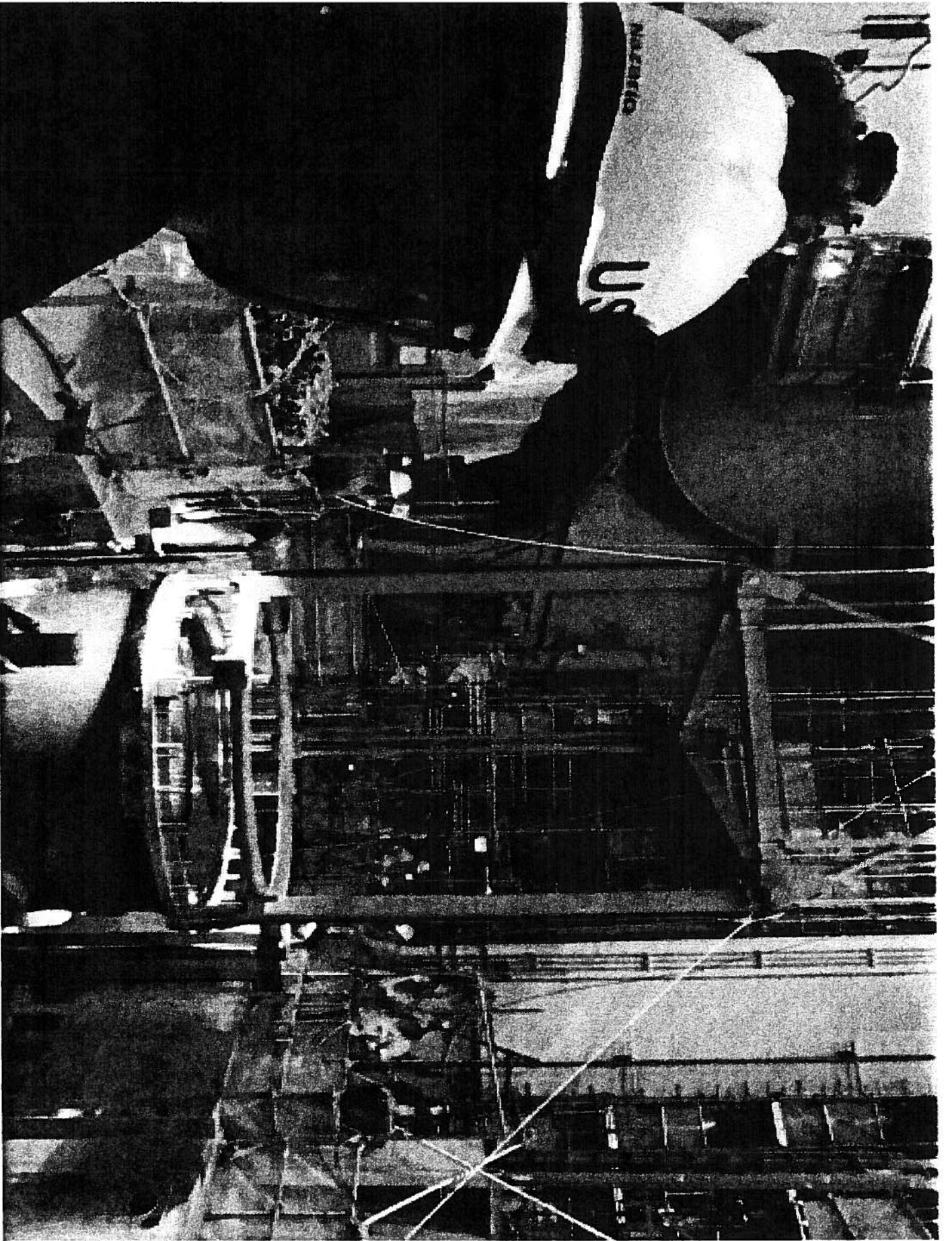
Enclosure 2



Enclosure 2



Enclosure 2



Enclosure 2

Remaining Region II Actions



- Remaining construction & pre-operational test inspections
- Operational Readiness Assessment Team inspection

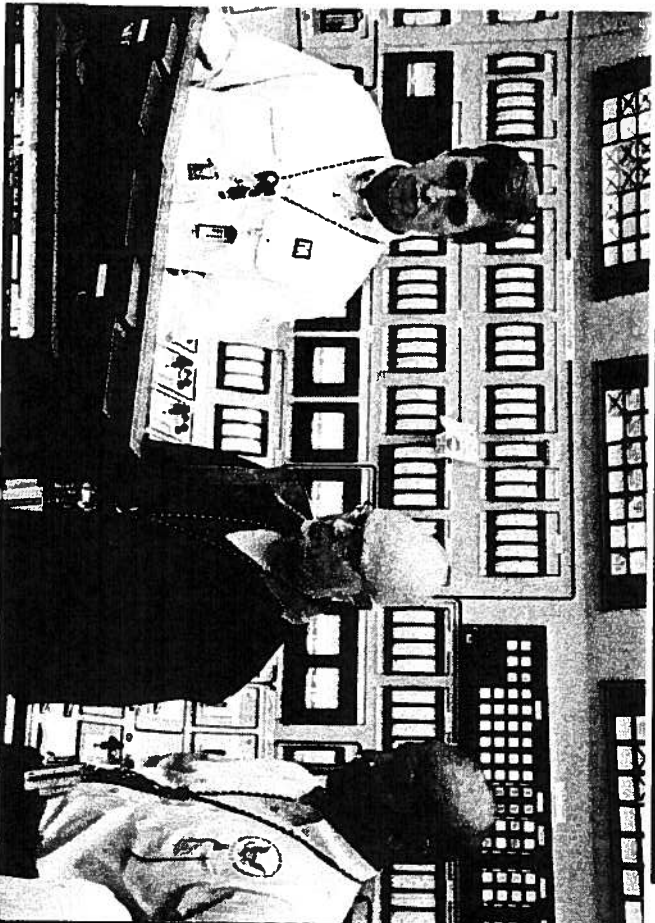


Remaining Region II Actions

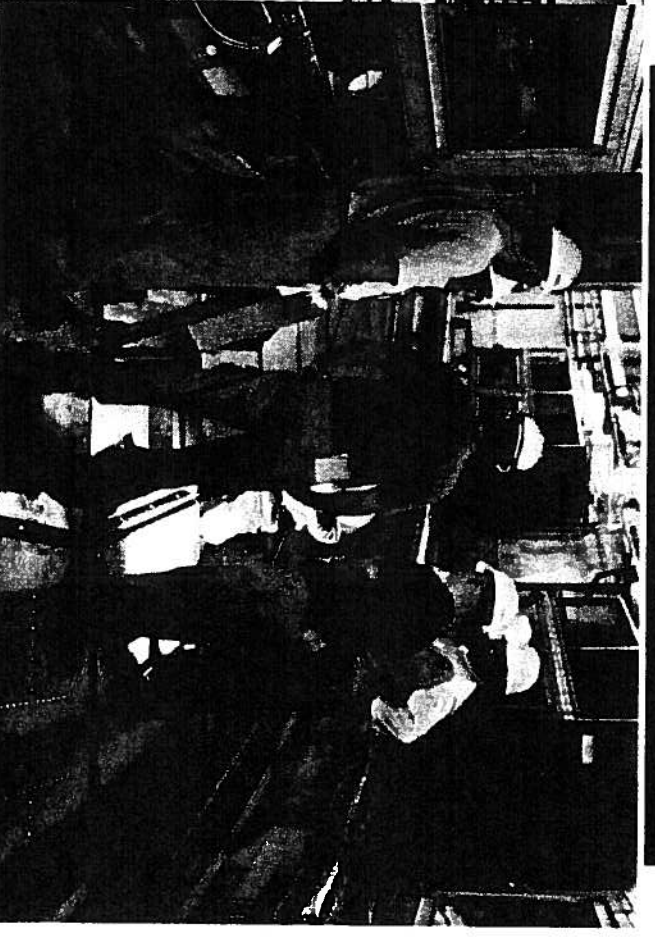


- Region II Role in Operating License Decision
- Start-up test inspections

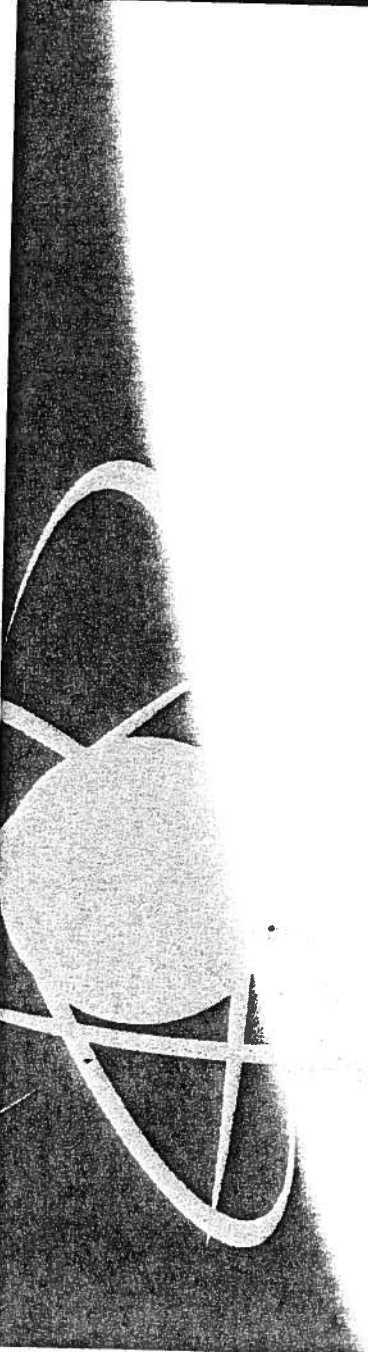
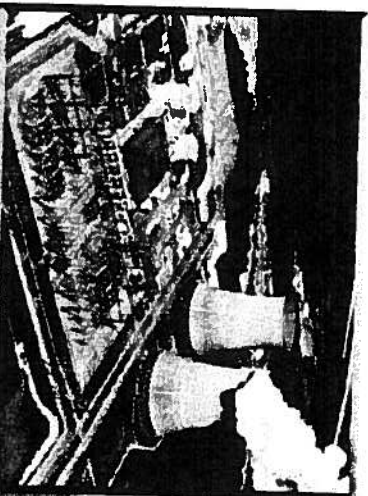
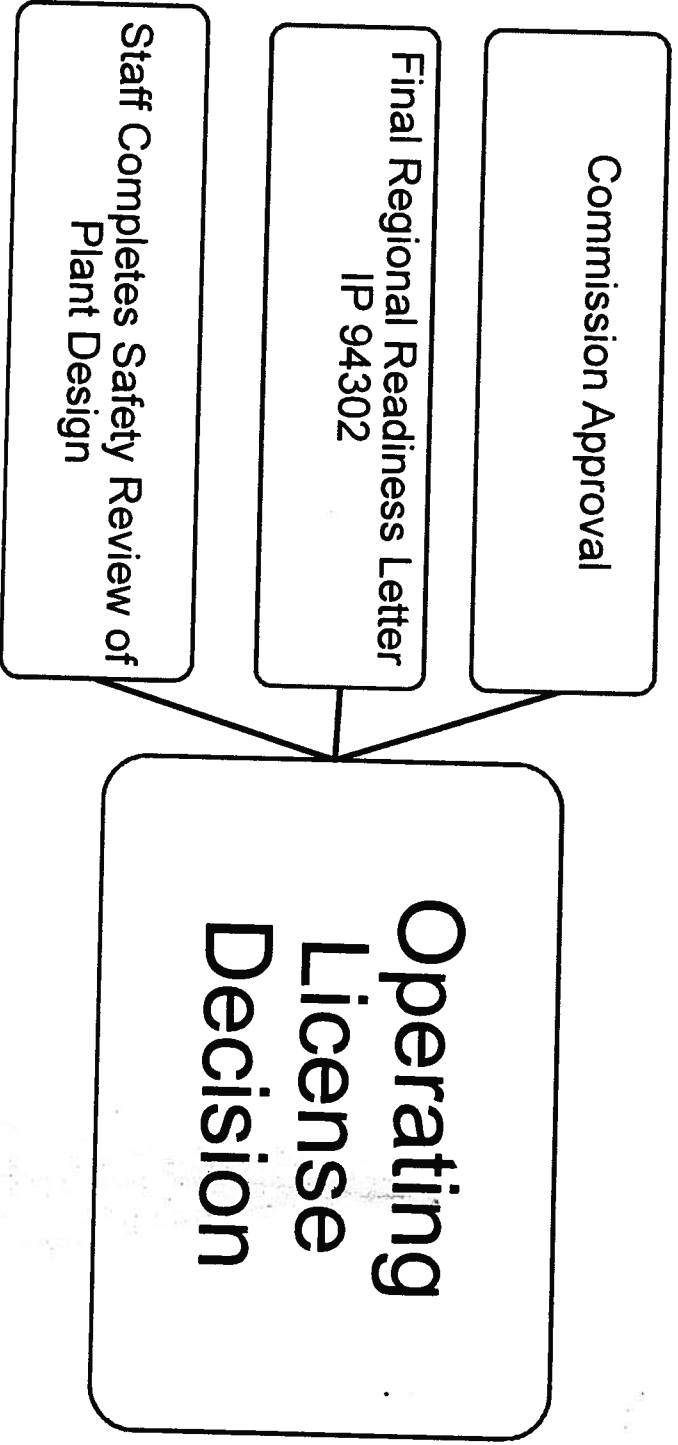
**Bill Dean and Vic McCree
Tour of Unit 2 Control Room**



**Bill Dean and Vic McCree
Tour of Unit 2 Ice Condenser**



Next Steps



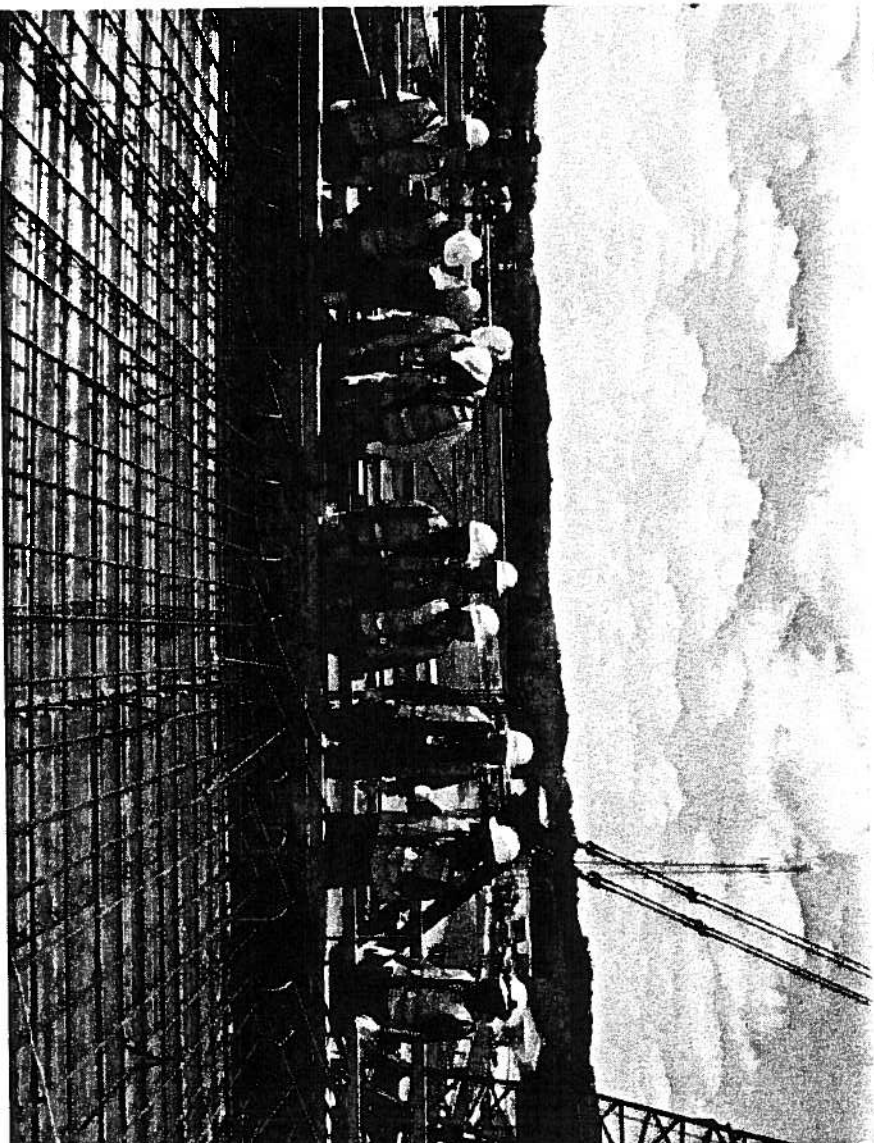
Closing Remarks



U.S. NRC

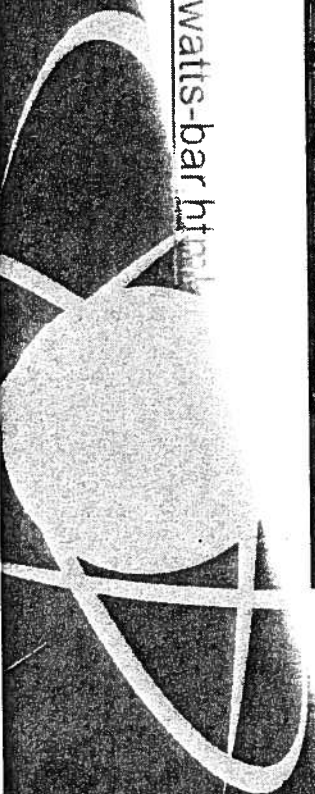
United States Nuclear Regulatory Commission

Protecting People and the Environment



For More Information:

<http://www.nrc.gov/info-finder/reactor/wb/watts-bar.html>



Questions



Tommy Nazario, Senior Resident Inspector Unit 2

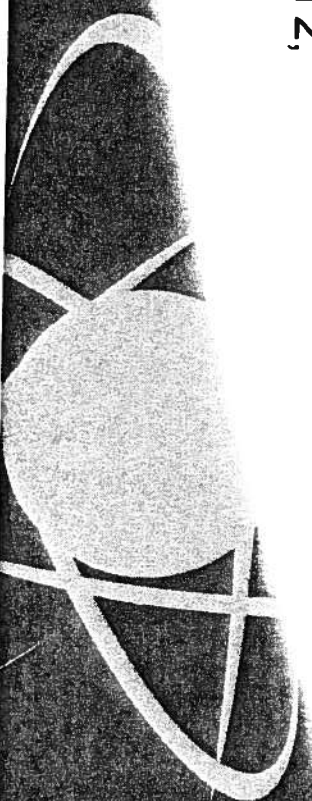
Tommy.Nazario@nrc.gov 423-365-3967

Jared Nadel, Senior Resident Inspector Unit 1

Jared.Nadel@nrc.gov 423-365-5487

Jeanne Dion, Project Manager, Units 1 and 2,

Jeanne.Dion@nrc.gov 301-415-1349





Watts Bar Nuclear Plant, Unit 2

Senior Management Meeting

Mike Skaggs, Senior Vice President, Watts Bar Operations & Construction

Kevin Walsh, Site Vice President, Watts Bar Nuclear Plant

March 26, 2015

Enclosure 3

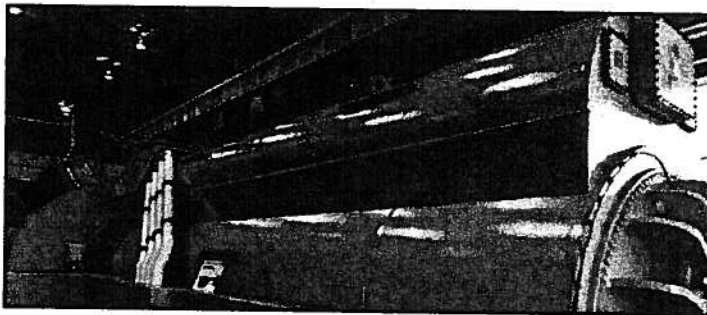
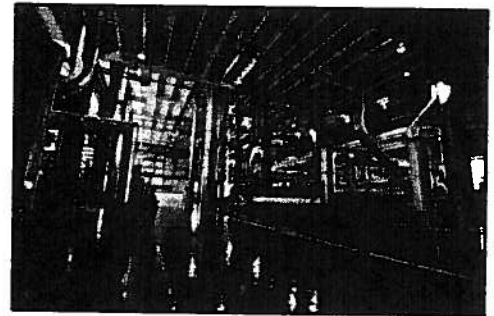
Agenda

- Guiding Principles
- Project Status
- Current Regulatory Requirements
- Challenges and Risks
- Key Initiatives
- Dual-Unit Operational Readiness
- Upcoming Milestones



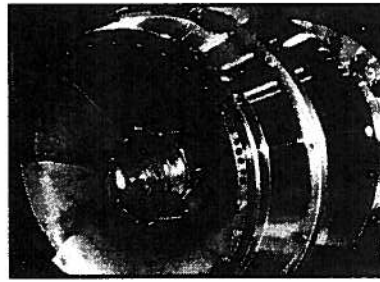
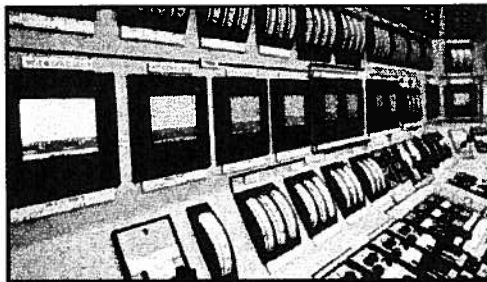
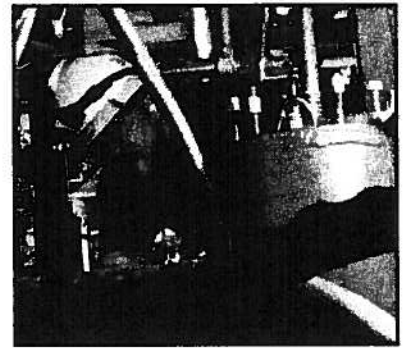
Guiding Principles

- Safe and high quality
- Design basis fidelity with Watts Bar Unit 1



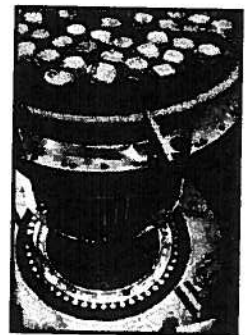
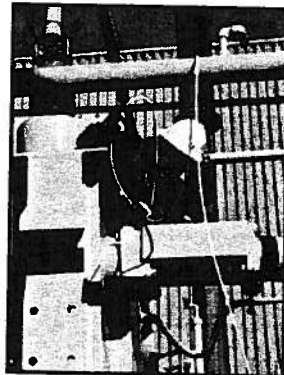
Project Status

- Safety and quality on track
- Schedule and cost within estimate to complete ranges
- Construction in final phase
- Pre-operational testing now critical path



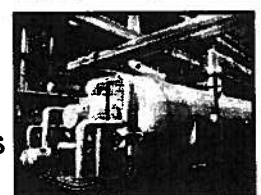
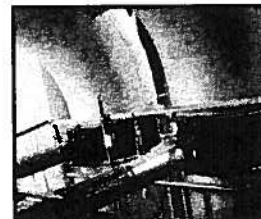
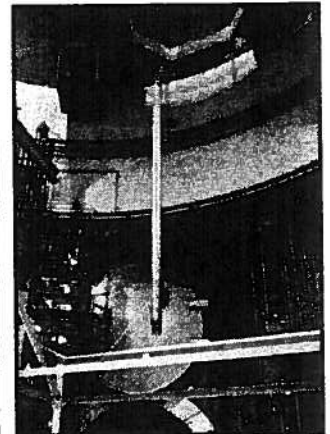
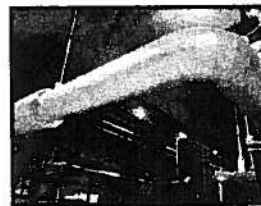
Testing Milestones Achieved

- Open vessel testing
- Primary hydrostatic testing
- Secondary hydrostatic testing
- Ice condenser cooldown
- Unit 2 transformers energized
- Initial condenser vacuum established



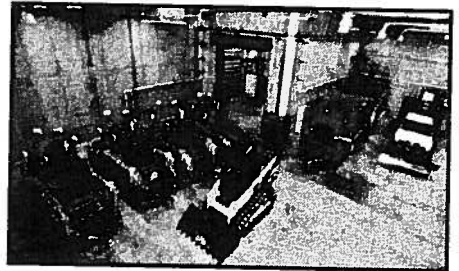
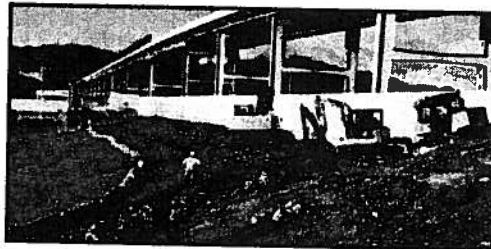
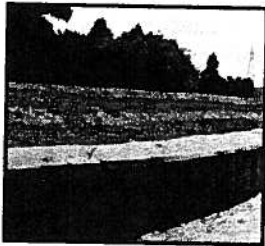
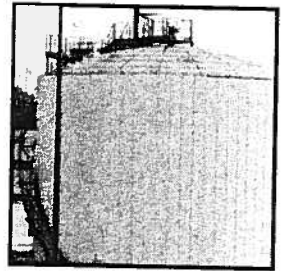
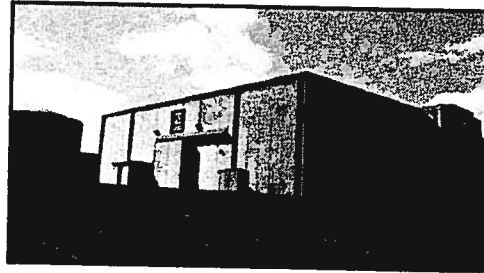
Recent Progress

- Construction completion of systems required for hot functional testing
- Ice loading
- Secondary plant evolutions
- Nuclear instrumentation installed
- System turnovers
- American Society of Mechanical Engineers stamping/certifications
- Inspection, planning, and scheduling items
- Advisory Committee on Reactor Safeguards final recommendations



Current Regulatory Requirements

- Fukushima Order
- Cyber security
- Fire protection
- Shared service water
- Hydrology improvements
- Seismic mitigation

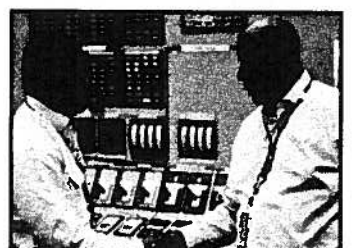
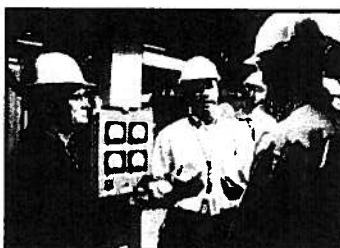


Challenges and Risks

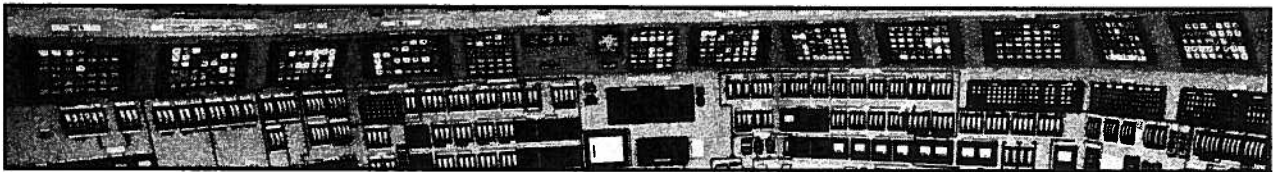
- Schedule challenges with component and pre-operational testing
- Equipment challenges during testing
- Readiness for hot functional testing
- System and area turnovers
- Key Nuclear Regulatory Commission (NRC) inspections
- Emergent licensing issues

Key Initiatives

- Plant improvements
- Quality assurance
- Safety culture
- Project demobilization
- Outreach activities



Dual-Unit Operational Readiness



- Implemented organizational transition plans
 - Staffing at appropriate level
 - Training complete
 - Procedures, programs, and processes on track
- Unit 1 sharing ownership of critical Unit 2 milestones
- Operating organization driving transition, corporate providing oversight

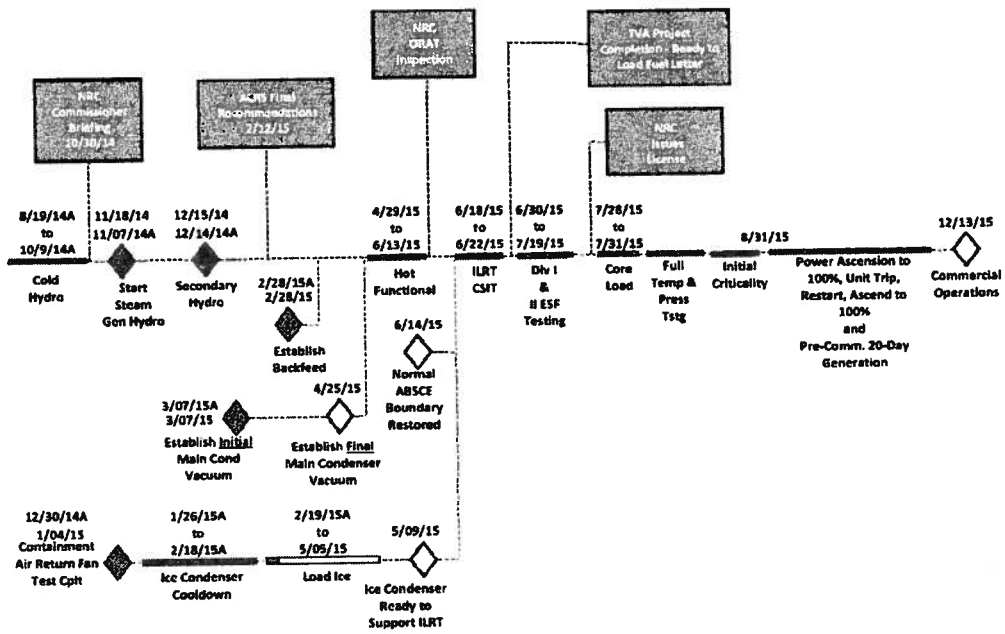
Upcoming Milestones

- Component and pre-operational testing completion for hot functional testing
- Hot functional testing window
- NRC Operational Readiness Assessment Team Inspection
- Project completion letter
- Integrated leak rate test
- Engineered safety features testing
- Ready to load fuel letter
- Fuel Load

Enclosure 3



Forecast Milestone Summary



Watts Bar Unit 2

- **Historical milestones are being achieved at Watts Bar Unit 2.**
- **Unit 2 construction is in the final phase; pre-operational testing and dual-unit transition activities are in progress.**
- **Work continues on remaining key technical issues requiring NRC approval.**
- **Watts Bar Unit 2 is being completed right way – safely, with quality and in a manner to ensure regulatory compliance and excellence in operations following licensing.**
- **TVA is prepared to successfully operate and maintain two units at Watts Bar which is on track to produce the nation's first new nuclear generation of the 21st century.**





Watts Bar Nuclear Plant, Unit 2
Senior Management Meeting

Enclosure 3