



NRG Management Meeting

March 16, 2009



Introduction & Opening Remarks



Presented by

Gregory Smith

Chief Operating Officer &

Chief Nuclear Officer

Agenda



- Major Milestones
- Engineering Activities
- Construction Activities
- Operations – Activities
- Licensing Activities
- Safety Culture
- Facility Expansion
- Closing Remarks

Major Milestones (since Oct 2008)



- [REDACTED] Centrifuge Assembly Building Turned Over to ETC and ETUS
- [REDACTED] Addendum to ETUS Standard Practice Procedures Plan (SPPP) for HAT Approved by NRC
- [REDACTED] URENCO Announcement to Expand the Capacity of the National Enrichment Facility
- [REDACTED] License Amendment Request (LAR) for SBM Design Basis Change Approved by NRC
- [REDACTED] Receipt of 1st Shipment of UF₆ for Centrifuge Testing

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Engineering Activities



Presented by

Dave Sexton

Vice President - Engineering

Engineering Activities



- LES has established its own onsite Design Agency
- Engineering is on track to:
 - Complete all remaining designs in time to support Operations in late 2009
 - Complete all owner acceptance reviews of design prior to operational readiness
 - Transfer all remaining NTS design agency responsibilities to LES by [REDACTED]
 - Continue issuance of LES drawings and specifications on site

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Engineering Activities (cont.)



- Recent accomplishments include:
 - Fully established in-house Design Agency capable of Quality Level 1 design
 - Fully staffed organization to support design, procurement and construction
 - Prior issues with configuration management of Engineering Change Request issuance have been resolved
 - LES is the Engineer of Record for site utilities, substation, and Security Building
 - All major site facilities for initial operations have been permitted for construction

Construction Activities



Presented by

Dan Poirier

Vice President - Construction



Aerial View of Construction Site

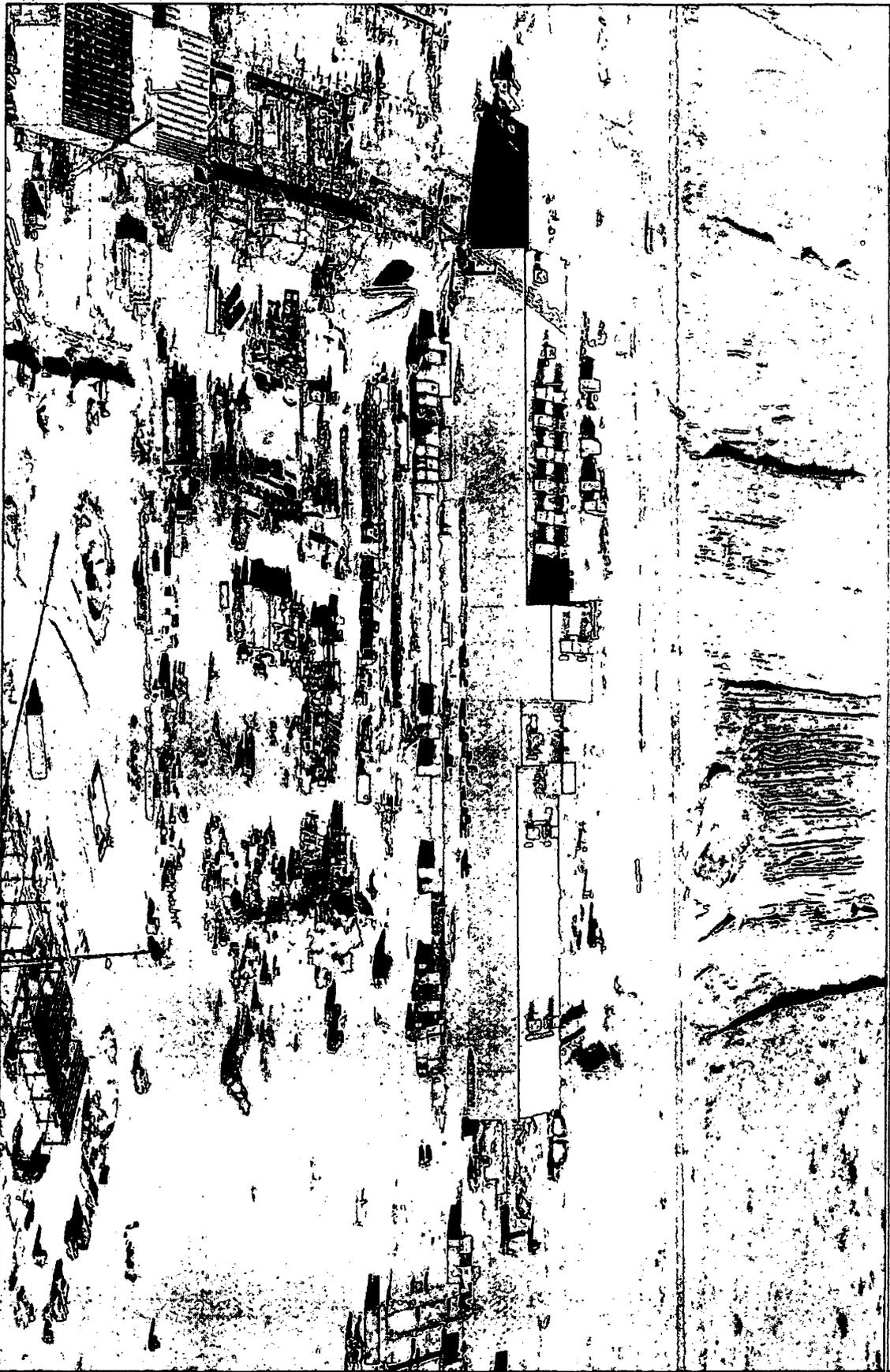
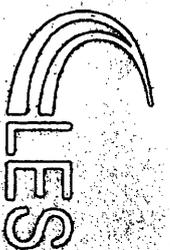


Centrifuge Assembly Building (CAB)

- [REDACTED], the CAB was officially turned over to ETC and ET US
- [REDACTED], the NRC approved the Centrifuge Test Facility (CTF) within the CAB to process, store and handle classified material
- [REDACTED], the State of New Mexico issued a temporary occupancy permit
- [REDACTED] Certificate of Occupancy for Phase 2 approved.
- ETUS is now proceeding with Site Acceptance Testing and Equipment Qualification

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Centrifuge Assembly Building (CAB)



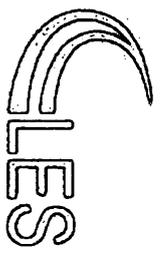
Separation Building Module (SBM) - Centrifuge Halls

- Four cascades of flomels have been installed, positioned with all infill and grouting complete
- Roof concrete in Halls 1A, 1B, 2A, and 2B is complete
- Roof concrete in Process Service Corridor is complete
- Lower cascade steel installation for first cascade is in process
- Structural steel approximately 99% complete
- UF₆ Area transporter rail is in place
- Walls in UF₆ Area placed; roof placements are 100% complete
- Security Systems are ready for classified material in Hall 1A

Separation Building Module (SBM1)



SBM1 Process Services Corridor (PSC)



Construction Activities (cont.)



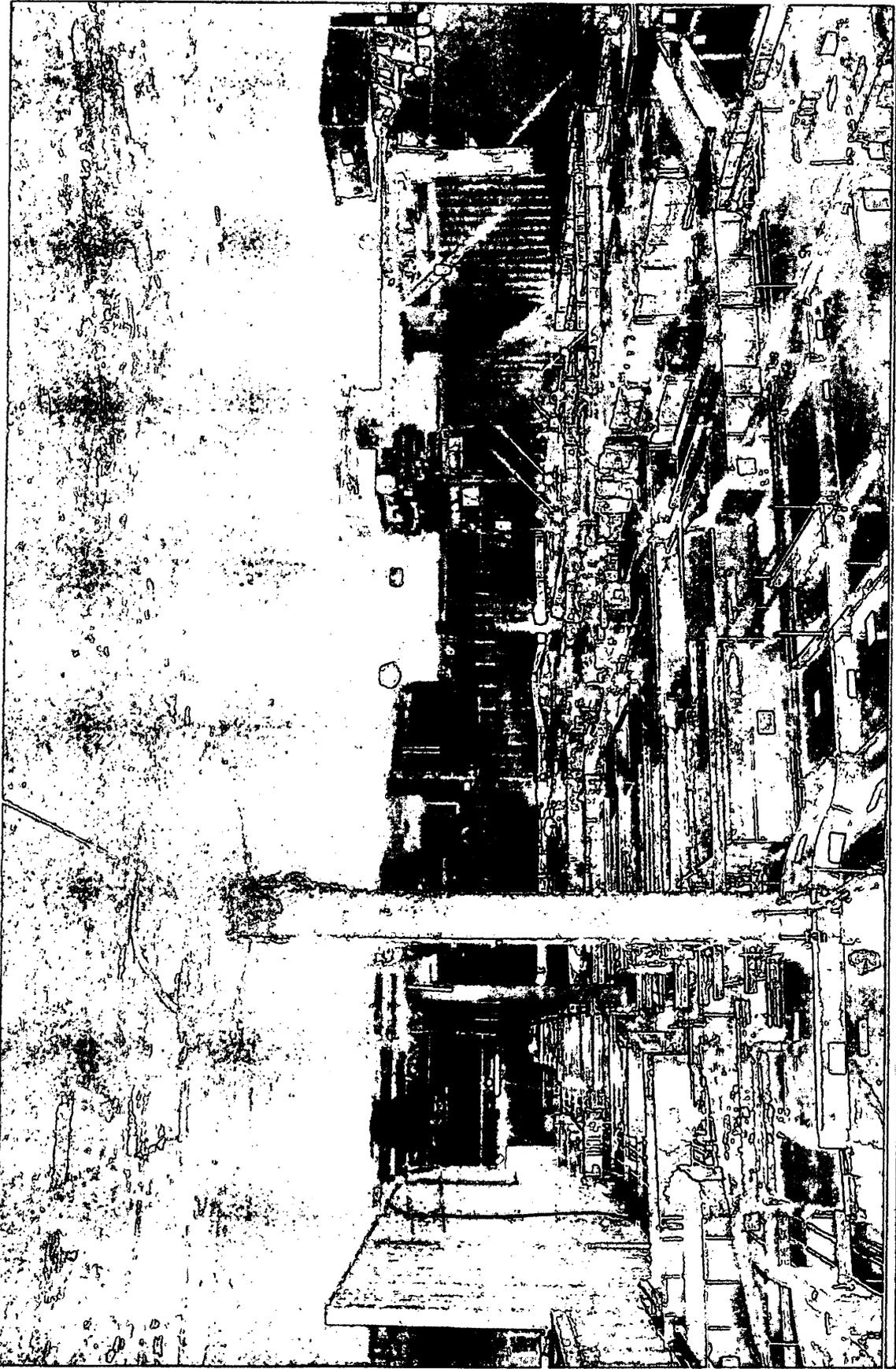
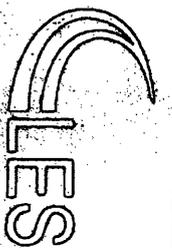
Technical Services Building (TSB)

- TSB Steel erection is complete (1250 tons)
- Walls in Control Room are in progress
- TSB concrete floor slabs are complete on all elevations
- Mechanical Piping Installation is 50% Complete.
- Mechanical/electrical system installation has commenced

Cylinder Receipt and Dispatch Building (CRDB)

- Concrete footing installation complete.
- Concrete placement for Bunkered Area Stemwalls has commenced
- Concrete placements for footings has begun in bunkered section
- Tower cranes have been mobilized to facilitate construction to CRDB.

Technical Services Building (TSB)



Cylinder Receipt and Dispatch Building (CRDB)



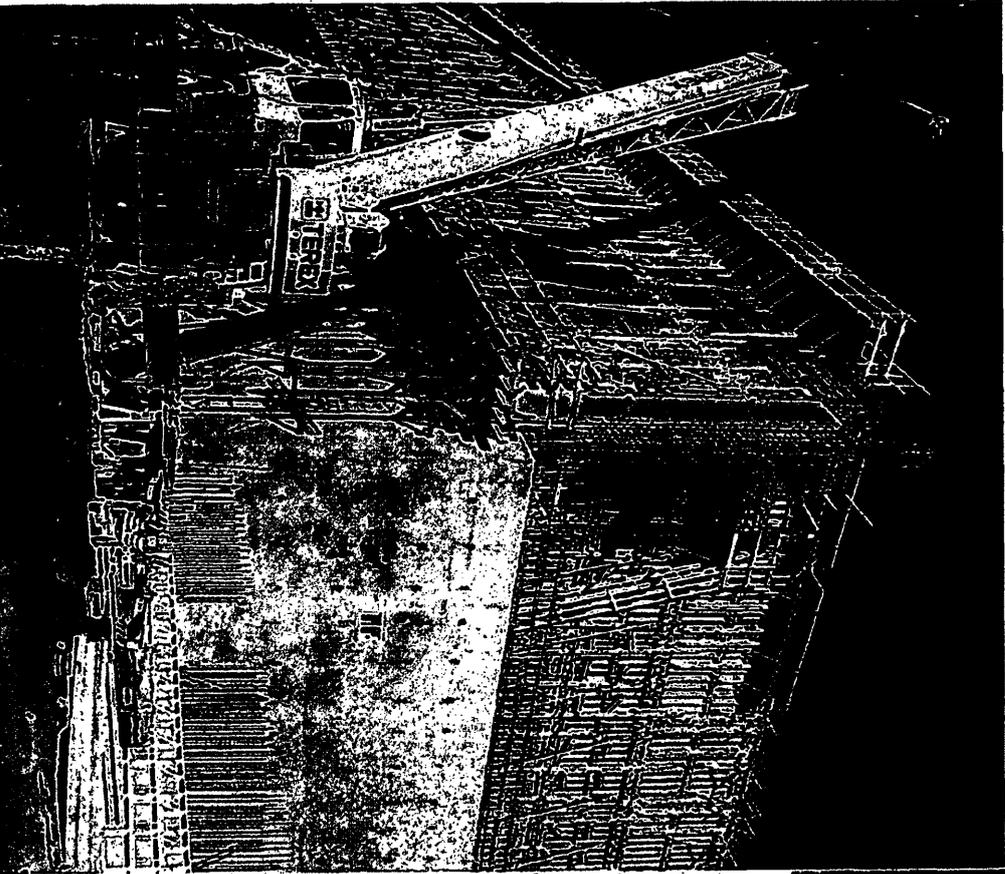
Central Utilities Building (CUB)



Safety and Quality

- Safety and Quality continues to be the top priority at all levels
- 4,100,000 Man-Hours without a Construction Lost Time Accident
- Construction Rework Rate at .188 per 10,000 Man-Hours
- Site Self ID Rate is greater than 80% for all groups
- We have an aggressive site Corrective Actions program which tracks Non-Conformances and extrapolates lessons learned

Construction - Key Lessons Learned



- Design Review before Construction
- Engineering / Procurement / Construction Contracting
- COL Culture
- Planning, planning, planning, to keep construction on critical path



- [REDACTED] Start Cascade Header Pipe Installation Work in Mini-Hall
Start Equipment Installation in Process
Service Corridor (PSC)
- [REDACTED] Start Equipment Installation in UF₆ Area
- [REDACTED] External Travel Path Complete – Cylinder Receipt and Dispatch Building (CRDB)
- [REDACTED] Start Centrifuge Machine Production
Technical Services Building (TSB) Turnover
Centrifuge Assembly Building (CAB) Turnover

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Construction - Looking Forward (cont.)



- [REDACTED] Start Centrifuge Installation
- [REDACTED] Central Utilities Building (CUB) Turnover, CRDB NOA1 Bunker Structurally Complete
- [REDACTED] First Cascade On-Line

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Operations - Activities



Presented by

Jerome Reed

Vice President - Operations

Operations - Activities



- **Operational Readiness**
- **Upcoming Milestones**
- **Staffing**
- **Procedures and Programs**
- **Mock Operations**
- **Operational Controls while Constructing**

Operational Readiness



- Operations, Maintenance and Security staffing for 1st cascade on line is complete; training is 75% complete
- Procedures and programs for 1st cascade are 75% complete
- Hot Acceptance Testing ongoing. NRC approval granted on [REDACTED]
- UF₆ source material was received [REDACTED] and was Transfer to test rig started [REDACTED] and was completed on [REDACTED]
- Security systems for classified matter in ISO-Pad, Centrifuge Assembly Building and Hall 1A are installed and NRC has approved their use

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Operations - Upcoming Milestones



- Security systems in place for 1st cascade on line -- [REDACTED]
- Implement Emergency Preparedness -- [REDACTED]
- National Enrichment Facility ready for NRC Operational Readiness Review -- [REDACTED]
- Receipt of feed stock -- [REDACTED]
- 1st cascade on line -- [REDACTED]

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Operational Control - Current Status



- 24 hour, 7 day a week Operations shift coverage
- Operations has assumed Operational Control of:
 - Site excavation activities
 - Fire protection systems
 - Centrifuge Assembly Building electrical system
 - Centrifuge Assembly Building HVAC and other utilities
 - Security utilities
- Hot Acceptance Testing is ongoing

Operations - Procedures and Programs



- **Conduct of Operations**
- **Operating and Maintenance Procedures**
- **Abnormal and Emergency Procedures**
- **Operational Control During Construction**
- **Nuclear Material Control & Accounting**
- **Criticality Safety**
- **Radiation Protection**
- **Fire Protection**
- **Approximately 600 total procedures**

Tabletops and simulations with actual equipment to validate procedures and prepare Operations and Maintenance personnel:

- UF₆ cylinder receipt
- Transfer of UF₆ to Centrifuge Test Facility
- IROFS testing and surveillance
- Centrifuge Test Facility operation
- Hot Acceptance Test sample packaging and transportation to laboratory

Operational Controls while Constructing

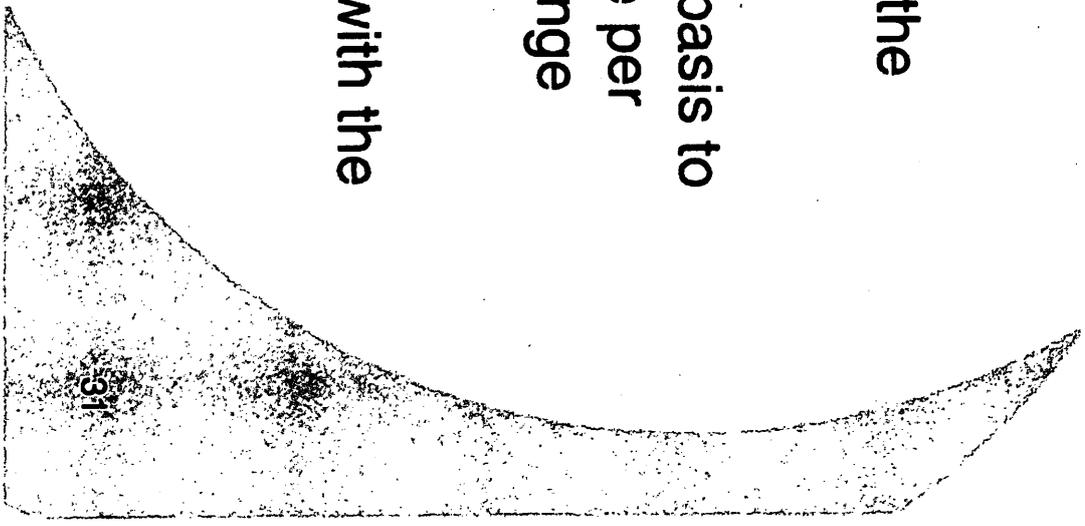
- Objective: Safe and Reliable Operation while Constructing
- Achieved through:
 - License Compliance
 - Operational Control Zones
 - Defense in Depth
 - Work Control

Operational Controls while Constructing (cont.)



License Compliance

- Assessing risks to Safe Operation while Constructing to ensure compliance with the approved safety basis
- Reviewing and updating plant licensing basis to reflect plant status for 1st cascade online per 10CFR70.72, Facility Changes and Change Process
- Close coordination and communication with the NRC



Licensing Activities



Presented by

Steve Cowne

Director – Quality and Regulatory Affairs

License Amendment Requests Either Currently Under NRC Review or To Be Submitted by Mid-2009

- Various Security Amendments to allow for the processing storage and transportation of classified information
- CRDB IROFS changes
- Constructing While Operating
- Plant Expansion LAR – Tails Cylinder Limits and Decommissioning Funding Changes
- Fire Protection IROFS changes
- New Accident postulated for Autoclave Internal Leakage
- Emergency Action Levels Amendment

NRC Inspection Findings

- During the last six months, LES has received four (4) Notice of Violations (NOVs) of Severity Level IV from the NRC
- These were documented in NRC Inspection Report 70-3103/2008-003 dated October 30, 2008
- In its response, NEF-08-00299-NRC, Reply to Violation 70-3103/2008-003, dated December 1, 2008, LES identified corrective actions which will address each of the four (4) Notice of Violations (NOVs)

Safety Culture



- LES recognizes the importance of a strong safety culture
- LES performed an independent safety culture assessment in 2008
- LES is preparing for another series of safety conscious work environment training classes for all supervisors
- LES continually looks for ways to improve safety culture

Facility Expansion

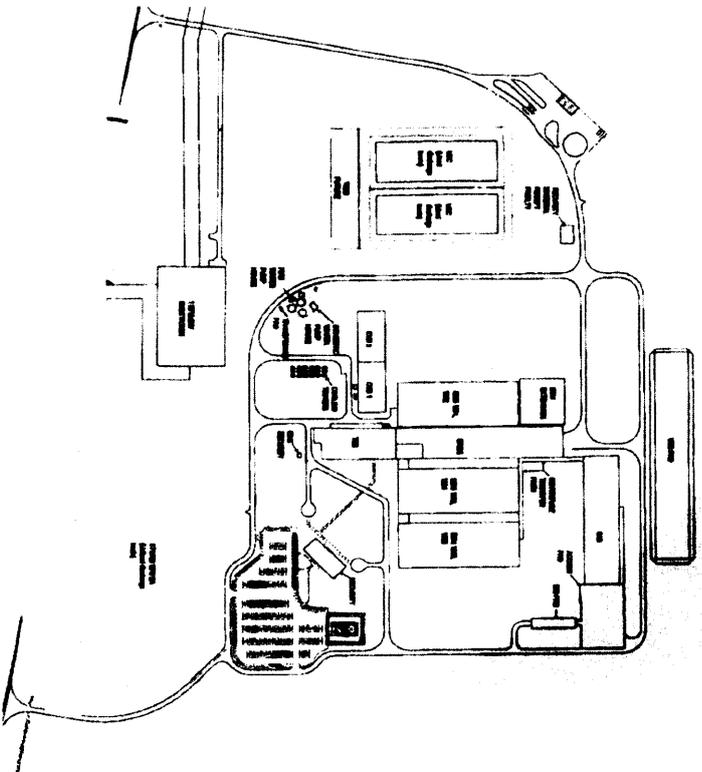


Presented by

Gary Sanford

Vice President – Facility Expansion

Facility Expansion – Site Announcement to 5.9 MSWU



Facility Expansion (cont.)



- LES will follow its Configuration Control/Management process for design changes, and those that are required will be evaluated using the 10CFR70.72 evaluation process
- Changes to programs such as Emergency Planning, Security, NMC&A, Quality Assurance, Environmental Compliance will undergo additional reviews to determine if there is a decrease in effectiveness or reduction in commitment as appropriate
- LES will then identify and schedule any required License Amendments with the NRC

Closing Remarks



Presented by

Gregory Smith

Chief Operating Officer &

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