

LES PUBLIC INFORMATION MEETING

EUNICE, NEW MEXICO AUGUST 2, 2005



OBJECTIVES

- PROVIDE BRIEF SUMMARY OF
 - SAFETY EVALUATION REPORT
 - ENVIRONMENTAL IMPACT STATEMENT
- DISCUSS FUTURE PROJECT MILESTONES
- ANSWER PUBLIC QUESTIONS

Attachment 1



NRC LICENSING PROCESS

- NRC IS AN INDEPENDENT AGENCY RESPONSIBLE FOR ENSURING PROTECTION OF PUBLIC AND WORKER HEALTH AND SAFETY IN USE OF RADIOACTIVE MATERIALS.
- NRC IS NOT A PROMOTER OF PROPOSED PROJECT.
- ENRICHMENT FACILITY CONSTRUCTION CANNOT BEGIN UNTIL A LICENSE FOR CONSTRUCTION AND OPERATION IS ISSUED.
- HEARING IS REQUIRED FOR URANIUM ENRICHMENT FACILITY (10 CFR PART 2).



PROJECT BACKGROUND

- LOUISIANA ENERGY SERVICES (LES) IS PROPOSING TO ENRICH URANIUM USING A GAS CENTRIFUGE PROCESS IN EUNICE, NM.
- ENRICHED URANIUM IS NEEDED FOR FUEL FOR NUCLEAR POWER PLANTS.
- LICENSE APPLICATION SUBMITTED ON DECEMBER 12, 2003.
- NRC'S SAFETY AND ENVIRONMENTAL REVIEWS COMPLETED IN JUNE 2005.



NRC REVIEW PROCESS

- UTILIZED SAFETY, ENVIRONMENTAL, AND SECURITY REVIEW STAFF, AS WELL AS CONTRACTORS
- FOLLOWED A STANDARD REVIEW PLAN, NUREG-1520, "STANDARD REVIEW PLAN FOR THE REVIEW OF A LICENSE APPLICATION FOR A FUEL CYCLE FACILITY"
- ISSUED REQUESTS FOR ADDITIONAL INFORMATION AND CONDUCTED CONFERENCE CALLS AND MEETINGS



- LES REVISED LICENSE APPLICATION ACCORDINGLY
- DOCUMENTED REVIEW IN THE SAFETY EVALUATION REPORT AND FINAL ENVIRONMENTAL IMPACT STATEMENT



NRC'S SAFETY EVALUATION REPORT (SER)

- NRC CONDUCTED SAFETY REVIEWS IN THE FOLLOWING AREAS:
 - GENERAL INFORMATION
 - ORGANIZATION AND ADMINISTRATION
 - INTEGRATED SAFETY ANALYSIS
 - RADIATION PROTECTION
 - NUCLEAR CRITICALITY SAFETY
 - CHEMICAL SAFETY
 - FIRE SAFETY
 - MANAGEMENT MEASURES
 - EMERGENCY MANAGEMENT



United States Nuclear Regulatory Commission

- ENVIRONMENTAL PROTECTION
- DECOMMISSIONING
- MATERIALS CONTROL AND ACCOUNTING
- PHYSICAL PROTECTION
- TRANSPORTATION SECURITY
- NRC'S SAFETY EVALUATION REPORT DOCUMENTS THE RESULTS OF THE SAFETY REVIEW OF THE ABOVE AREAS.



GENERAL INFORMATION

- GENERAL FACILITY FUNCTION AND SITE INFORMATION
- FINANCIAL QUALIFICATIONS
- CLASSIFIED INFORMATION SECURITY
- FOREIGN OWNERSHIP AND CONTROL
- LIABILITY INSURANCE



ORGANIZATION AND ADMINISTRATION

- ORGANIZATION AND MANAGEMENT CAPABLE OF PERFORMING SAFETY FUNCTIONS
- MANAGEMENT AND STAFF WILL HAVE PROPER TRAINING AND QUALIFICATIONS



INTEGRATED SAFETY ANALYSIS (ISA)

- PERFORMED BY LES
- ISA SUMMARY REVIEWED BY NRC STAFF DURING SAFETY REVIEW
- COMPREHENSIVE EVALUATION OF RADIOLOGICAL AND CHEMICAL RISKS FROM POTENTIAL ACCIDENTS
- IDENTIFIES MEASURES TO PREVENT OR MITIGATE POTENTIAL ACCIDENTS



ISA PROCESS

KEY ELEMENTS

- PERFORMANCE REQUIREMENTS
- EVALUATION OF POTENTIAL ACCIDENT SEQUENCES AND CONSEQUENCES
- IDENTIFICATION OF IROFS
- MANAGEMENT MEASURES
- PLANT CHANGE PROCESS

10 CFR 70.61 Performance Requirements

| | Highly Unlikely | Unlikely | Not unlikely |
|---|-----------------|----------------|----------------|
| High Consequence Publ Dose > 25 rem Worker Dose > 100 rem | Acceptable | Not Acceptable | Not Acceptable |
| Medium Consequence Publ Dose 5 - 25 rem Worker Dose 25 -100 rem Env releases > 5000 Tbl 2 | Acceptable | Acceptable | Not Acceptable |
| Low Consequence Publ Dose < 5 rem Worker Dose < 25 rem | Acceptable | Acceptable | Acceptable |

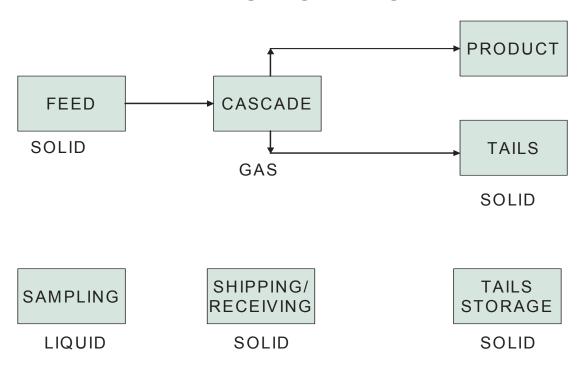


ITEMS RELIED ON FOR SAFETY (IROFS)

- MUST BE IN PLACE FOR HIGHER-RISK ACCIDENT SEQUENCES
- PREVENT OR MITIGATE THE CONSEQUENCES OF SUCH ACCIDENTS
- INCLUDES SYSTEMS, STRUCTURES, EQUIPMENT, COMPONENTS, AND PERSONNEL ACTIONS
- MANAGEMENT MEASURES IN PLACE TO ENSURE AVAILABILITY AND RELIABILITY
- LES ADEQUATELY PROVIDED INFORMATION ABOUT IROFS



LES FLOW DIAGRAM





ISA REVIEW RESULTS

- NRC STAFF REVIEWED LES' ISA SUMMARY AND SUPPORTING DOCUMENTATION
- STAFF VISITED ALMELO, THE NETHERLANDS, TO BECOME FAMILIAR WITH THE PROPOSED PROCESSES AND PLANT LAYOUT
- STAFF CONDUCTED DETAILED REVIEWS OF VARIOUS ACCIDENT SEQUENCES



ISA REVIEW RESULTS

- SUFFICIENT INFORMATION WAS PROVIDED ABOUT THE SITE,
 FACILITY PROCESSES, HAZARDS, AND TYPES OF ACCIDENT SEQUENCES
- ACCIDENT SEQUENCES ADDRESSING RADIOLOGICAL, CHEMICAL, CRITICALITY, AND FIRE AS WELL AS THE EFFECTS OF NATURAL PHENOMENA WERE ADEQUATELY ADDRESSED
- LES IDENTIFIED SUITABLE IROFS AND MANAGEMENT MEASURES TO ENSURE THE IROFS AVAILABILITY AND RELIABILITY TO PERFORM THEIR SAFETY FUNCTION



RADIATION PROTECTION

- LES HAS AN ADEQUATE PROGRAM FOR PROTECTING WORKERS AND MEMBERS OF THE PUBLIC FROM EXPOSURE TO RADIATION
- PROGRAM INCLUDES TRAINING, PROCEDURES, AND MONITORING
- PROGRAM ENSURES THAT WORKER AND PUBLIC DOSES ARE AS LOW AS REASONABLY ACHIEVABLE (ALARA)



CRITICALITY SAFETY

- FACILITY DESIGN INCLUDES PASSIVE FEATURES TO PRECLUDE CRITICALITY
- LES HAS AN ADEQUATE PROGRAM FOR PROTECTING AGAINST CRITICALITY
- PROGRAM INCLUDES QUALIFIED STAFF TO DEVELOP, IMPLEMENT, AND MAINTAIN THE PROGRAM AND PROCEDURES
- PROGRAM MEETS REGULATORY REQUIREMENTS



CHEMICAL SAFETY

- LES HAS AN ADEQUATELY DESCRIBED AND ASSESSED CHEMICAL ACCIDENT CONSEQUENCES
- LES PERFORMED HAZARD ANALYSES THAT IDENTIFIED AND EVALUATED CHEMICAL PROCESSES AND POTENTIAL ACCIDENTS
- LES ESTABLISHED SAFETY CONTROLS FOR POTENTIAL ACCIDENTS THAT MEETS REGULATORY REQUIREMENTS



FIRE SAFETY

- LES HAS A PROGRAM IN PLACE THAT PROVIDES REASONABLE ASSURANCE THE FACILITY IS PROTECTED AGAINST FIRE HAZARDS
- PROGRAM INCLUDES REASONABLE ENGINEERED AND ADMINISTRATIVE CONTROLS TO MINIMIZE RISK OF FIRE AND EXPLOSIONS
- PROGRAM INCLUDES IROFS AND DEFENSE-IN-DEPTH PROTECTION



MANAGEMENT MEASURES

- LES PROVIDED ADEQUATE INFORMATION ABOUT MEASURES THAT WILL BE APPLIED TO THE PROJECT, INCLUDING:
 - OVERALL CHANGE PROCESS AND POLICY
 - MAINTENANCE PROGRAM
 - TRAINING PROGRAM
 - PROCESS FOR DEVELOPMENT, APPROVAL, AND IMPLEMENTATION OF PROCEDURES



EMERGENCY MANAGEMENT

- LES PROVIDED AN ADEQUATE EMERGENCY PLAN (EP) FOR THE FACILITY
- LES COMMITS TO MAINTAINING AND EXECUTING THE EP FOR RESPONDING TO CHEMICAL AND RADIOLOGICAL HAZARDS IF THEY OCCUR
- EP REQUIREMENTS ARE IMPLEMENTED THROUGH APPROVED WRITTEN PROCEDURES AND IN COORDINATION WITH LOCAL RESPONSE ORGANIZATIONS



ENVIRONMENTAL PROTECTION

- LES HAS AN ADEQUATE PROGRAM FOR PROTECTING THE ENVIRONMENT
- PROGRAM INCLUDES ENVIRONMENT AND EFFLUENT MONITORING
- PROGRAM INCLUDES CONTROLS TO MAINTAIN EFFLUENT RELEASES AS LOW AS REASONABLY ACHIEVABLE



DECOMMISSIONING

- LES PROPOSED AN ADEQUATE DECOMMISSIONING FUNDING PLAN (DFP)
- DFP PROVIDES A REASONABLE COST ESTIMATE FOR DECOMMISSIONING



- DFP ADDRESSES COSTS FOR DECONTAMINATING THE FACILITY AND FOR WASTE MANAGEMENT, INCLUDING THE DISPOSITIONING OF DEPLETED URANIUM TAILS
- CURRENTLY REVIEWING U.S. DEPARTMENT OF ENERGY COST ESTIMATE FOR DISPOSITIONING DEPLETED URANIUM REVIEW WILL BE DOCUMENTED IN SER SUPPLEMENT



SECURITY

- LES PROVIDED ADEQUATE PROGRAMS FOR
 - PHYSICAL SECURITY OF THE FACILITY -- INCLUDES CLASSIFIED INFORMATION AND ENRICHED MATERIAL
 - CONTROLLING AND ACCOUNTING FOR ENRICHED MATERIAL
 - TRANSPORTATION OF ENRICHED MATERIALS



FINAL ENVIRONMENTAL IMPACT STATEMENT

JENNIFER DAVIS



FUTURE PROJECT MILESTONES

| - | EVIDENTIARY HEARINGS | OCT AND NOV 2005 |
|---|-----------------------------|--------------------|
| - | LICENSING BOARD DECISION | FEB 2006 |
| - | COMMISSION DECISION | JUN 2006 |
| - | LICENSE ISSUED, IF POSITIVE | JUN 2006 |
| | DECISIONS ARE MADE | |
| - | CONSTRUCTION BEGINS | SUMMER 2006 |
| - | OPERATIONS BEGIN | 2008 |
| _ | FULL PRODUCTION | 2013 |

NRC CONTACTS

LES PROJECT MANAGER: TIM JOHNSON; 301-415-7299; TCJ@NRC.GOV

EIS PROJECT MANAGER: JIM PARK; 301-415-6613; JRP@NRC.GOV

PROJECT INSPECTOR: DEBORAH SEYMOUR; 404-562-4725;

DAS@NRC.GOV



- SER IS AVAILABLE AT: http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1827/
- FEIS IS AVAILABLE AT: http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1790/
- NRC HAS LES PROJECT AND GAS CENTRIFUGE WEBSITES (http://www.nrc.gov/materials/fuel-cycle-fac/lesfacility.html) (http://www.nrc.gov/materials/fuel-cycle-fac/gas-centrifuge.html)



SUMMARY

- PROVIDE BRIEF SUMMARY OF
 - SAFETY EVALUATION REPORT
 - ENVIRONMENTAL IMPACT STATEMENT
- DISCUSS FUTURE PROJECT MILESTONES