

APPENDIX A PROCEDURES

All activities listed below are covered by written procedures (except for maintenance activities listed below, which may be covered by written procedures, documented work instructions, or drawings appropriate to the circumstances). The list is not intended to be all inclusive nor is it intended to imply that procedures are developed with the same titles as those on the list. This listing provides guidance on topics to be covered rather than specific procedures.

Administrative Procedures

Training
Internal audits and inspections
Investigations and reporting
Records management and document control
Changes in facilities and equipment
Modification design control
Security and visitor control
Quality assurance
Equipment control (lockout/tagout)
Shift turnover
Control room activities
Communications
Work control
Management control
Temporary modification
Procedure management
Nuclear criticality safety
Fire protection
Radiation protection
Radioactive waste management
Maintenance
Environmental protection
Packaging and transportation of nuclear material
Safety Analysis
Chemical safety
Operations
Technical Safety Requirement surveillances
Calibration control
Code inspections
Preventive maintenance

System Procedures that Address Start-Up, Operation, and Shutdown

Cascade cells
Coolant

Appendix A

- Freezer/sublimers
- Purge cascade
- Electrical power
- Ventilation
- Datum
- UF₆ leak detection
- Criticality alarms
- Mass spectrometers
- Cell leakrates
- Cell negatives
- Cascade sampling
- Cell treatments
- Deposit monitoring
- Equipment removal with deposits
- Cascade shift routines and operating practices
- Reduction of cascade power level
- Splitting and remaking the cascade
- Cylinder burping
- Product withdrawal operations
- UF₆ cylinder filling
- UF₆ cylinder handling
- Liquid UF₆ handling crane operation
- UF₆ autoclave operations, feeding, heating, sampling, and transfer
- UF₆ material handling equipment
- Decontamination operations
- Uranium recovery
- Electrical switching operations
- Electrical equipment inspections
- Plant air
- Plant nitrogen
- Recirculating cooling water
- Sanitary water
- Plant water
- Chemical trapping

Abnormal Operation/Alarm Response

- Debladed compressor
- Cell in leakage
- Loss of cooling
- Loss of instrument air
- Loss of electrical power
- Loss of autoclave containment
- Loss of criticality alarm system
- Cell load alarm

Cell coolant alarm
Fires

Maintenance Activities that Address System Repair, Calibration, Inspection, and Testing

Repair of UF₆ smoke detectors
Repair of UF₆ valves
Testing of criticality alarm units
Testing of cranes
Compressor seal replacement
Calibration of process-indicating instruments
Chemical trap change out
Rigging
High efficiency particulate air (HEPA) filter maintenance
Safety system relief valve replacement
Replacement of compressor motors
Replacement of autoclave gaskets
UF₆ cylinder inspection and testing
Liquid UF₆ handling crane inspection and testing

Emergency Procedures

Response to a criticality
Toxic chemical releases (including UF₆)