

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)