

Commencement of Operations of the Idaho Accelerated Retrieval Project Phase II - February 06

Conduct of Operations (OP)

OBJECTIVE

OP.1 Resources are effectively allocated to address environmental, safety, health, and quality (ESH&Q), programmatic, and operational considerations required for commencing AR Project II activities to meet the following criteria:

CRITERIA:

OP.1.1. There are sufficient numbers of trained/qualified operations personnel to conduct and support the activity.

OP. 1.2 There are adequate facilities and equipment available to ensure operational support is adequate for the activity. (Such support services include operations, training, maintenance, waste management, environmental protection, industrial safety and hygiene, radiological protection and health physics, emergency preparedness, fire protection, quality assurance, criticality safety, and engineering). Special tools, equipment, parts, supplies are ready as identified in work control documents.

REVIEW APPROACH:

Document Reviews:

- Ensure that assigned operations personnel have completed qualification cards, e.g facility manager and operations foreman.
- Review the safety basis and work control documents and procedures for minimum staffing requirements. Compare with personnel records to assess the ability of the facility to field the required personnel for the activity.

Interviews:

- Interview operations and support personnel to determine whether there are adequate facilities and equipment available to ensure operational support is adequate and that special tools, equipment, parts and supplies are ready as identified in work control documents.

Shift Performance:

- Observe operational drills, routine evolutions/demonstrations and normal operations (as possible) to assess whether there are adequate facilities and equipment available to support operations and that special tools, equipment, spare parts and supplies are available as identified in work control documents.

Objective

OP.2 Administrative and engineering controls to prevent and mitigate hazards associated with commencing the AR Project I1 activities are tailored to the work being performed and the associated hazards to meet the following criteria:

CRITERIA:

OP.2.1 Adequate and correct work documents, including operating and maintenance procedures, Standard (STD)-101 work packages, and related documents, for the activity are developed and issued. Work documents are current, approved, and controlled.

OP.2.2 Dry runs, mockups, testing, and other preparations have been performed to confirm operability of equipment, viability of work documents, and knowledge and performance of personnel required for the activity.

OP.2.3 The formality and discipline of operations is adequate to conduct work safely and programs are in place to maintain this Conduct of Operations posture.

OP.2.4 Adequate and correct procedures and safety limits are in place for operating the process systems and utility systems that include revisions for modification that have been made to the facility.

OP.2.5 An adequate startup or restart program has been developed to confirm operability of equipment, viability of procedures and documents, and performance and knowledge of operators. The plan should indicate validation processes for equipment, procedures, and operators after startup or resumption of operations including any required and additional oversight.

REVIEW APPROACH:

Document Reviews:

- Review work documents, including operating and maintenance procedures, work packages and related documents to determine whether they are developed and issued and are current, approved and controlled. Work documents reviewed are technically adequate and meet CWI work control program requirements.
- Review startup plan for adequacy.
- Review records of dry runs, mockups, testing, and other preparations to determine whether there have been sufficient actions performed to confirm operability of equipment, viability of work documents, and knowledge and performance of personnel required for the activity.
- Review any applicable recently completed operations logs, shift turnover documents, and other facility records of note to assess compliance with conduct of operations principles.
- Review the Conduct of Operations implementation matrix for the activity. Verify status and adequacy of program implementation plan.
- Review facility policies regarding procedure use and compliance.
- Review modification documentation to determine whether adequate and correct procedures and safety limits are in place for operating the process systems and utility systems that include revisions for modifications that have been made to the facility. Ensure that senior supervisory watches are familiar

with procedural requirements for senior supervisory watch, the facility safety bases and the procedures and processes for the facility.

Interviews:

- Interview selected qualified operations personnel to assess the adequacy of performance demonstrations.
- Interview management and supervisory personnel and assess plans for startup of operations, including senior supervisory watch and other personnel.
- Interview operators, supervisors, senior supervisory watches, and subcontractor personnel to assess their understanding of the conduct of operations principles in the performance of their duties. Verify understanding and commitment to conducting operations safely.
- Interview selected personnel to determine their level of knowledge of implementation of procedures, operations support, and operability implementation program requirements and their application to facility activities under review.

Shift Performance:

- While observing evolutions, demonstrations, and drill exercises, determine if the facility is effectively implementing the conduct of operations requirements. Attend shift turnovers, incident critiques, pre- and post-job briefings and observe control room activities, operator rounds, panel walk-downs, procedure use, communications, response to alarms, control of system status, and lockout/tagout activities, as applicable.

OBJECTIVE

OP.3 Equipment (systems and components) required for activity performance has been identified, meets the design criteria for the activity, and a system is in place to maintain control over the design.

CRITERIA:

OP.3.1 Equipment has been verified as operational.

Review Approach:

Document Reviews:

- Review the surveillance test program to determine if each safety requirement (DSA and TSR) has a corresponding surveillance test and required frequency as specified per the TSR.
- Review completed operational test and surveillance procedures to determine whether equipment required for facility operations has been verified operable.
- Review surveillance tests to determine if acceptance criteria are established and met during periodic system testing.
- Verify surveillance procedures are technically correct and implement safety basis document requirements, including safety, operating, and environmental requirements.
- Review work control documents such as maintenance work orders for completion.

Interviews:

- Interview operations personnel to determine whether operability demonstrations for facility equipment have been performed.
- Interview nuclear facility management for their knowledge and understanding of confirming condition and operability of SSCs.

Shift Performance:

- Observe performance of any applicable safety system surveillance testing.