SEC-00253 – Reduction Pilot Plant

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Teleconference Meeting of the Uranium Refining Atomic Weapons Employers (AWEs) Work Group
February 17th, 2022
Reduction Pilot Plant

- Huntington, West Virginia
- Operated by International Nickel Company (INCO)
- Manufactured nickel powder for use in gaseous diffusion plants
- DOE Facility: 1951 – November 26, 1978
  Remediation: November 27, 1978 – May 18, 1979
  Standby Period: May 1, 1963 – Nov 26, 1978
- Remediation Contractor: Cleveland Wrecking Company
INCO Operations

- The RPP was a 3.47 acre fenced area adjacent to INCO’s large nickel plant in Huntington, West Virginia.
- The facility was built and operated by INCO starting in 1951.
- Security clearances were required.
- Operations included use of low enriched uranium-contaminated nickel scrap supplied by the Department of Energy (DOE).
Petition SEC-00253

- Received June 25, 2019
- Requested SEC class:
  - All INCO security personnel who worked at any location within the Reduction Pilot Plant during the period from June 7, 1976 through November 26, 1978
- The requested SEC class is within the Standby period
  - Operations end and facility placed in Standby on May 1, 1963 – Nov 26, 1978
  - The Standby period was not a covered period under EEOICPA when the petition was received
Petition SEC-00253, continued

- July 31, 2019: NIOSH asked DOL to review the petitioner’s claim that the Standby period should be covered under EEOICPA
  - During Standby, INCO was under contract for maintenance and security
- November 15, 2019: DOL notified NIOSH that the Standby period was being added to the DOE facility covered time period
- Petition qualified for review on December 13, 2019 on the basis that NIOSH had no radiation exposure records for the requested class
Evaluation Report (ER)

- NIOSH Evaluated Class:
  - All International Nickel Company (INCO) security personnel who worked at any location within the Reduction Pilot Plant during the period from June 7, 1976 through November 26, 1978

- NIOSH approved the ER on April 24, 2020

- NIOSH feasibility determination: dose reconstructions can be completed with sufficient accuracy for all members of the evaluated class
Background Information

During the period covered by petition SEC-00253 the RPP facility was idle

- Nickel production at the RPP ended in 1962; the plant was maintained in a standby condition by INCO
- Security guards were required to check the production building and compressor building once per shift (3 times daily)
- All maintenance activities were terminated in March 1975; INCO security guards made rounds through November 26, 1978
- Demolition began November 27, 1978
The Process Building was a 130 feet long, five-story building. The Compressor Building was a 150 feet long, single-floor building. There was a small two-story structure attached to one corner.

The 3.67-acre rectangular shaped RPP lot measured 500 feet by 320 feet, which indicates a total perimeter distance of 1,640 feet.
Walk-Through Exposure Time

The ER provided an estimate of the time it took to perform a walk-through inspection of the RPP

- The ER estimated 5 minutes (allowing for stops) to walk the length of the Compressor Building based on walking 150 feet at 4.4 feet per second; a factor of 3 was applied to allow for walking through both the Process Building and the Compressor Building, and the RPP grounds

- This yielded 15 minutes per day at the RPP; 15 minutes per day multiplied by 365 days to provide an exposure time of 91.3 hours per year
Questions?