History and Information Used to Process EEOICPA Requests

Grand Junction, Colorado, Site & Uranium Mill Sites

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Grand Junction Site History

- The Grand Junction Site is located in Grand Junction, Colorado about 240 miles west of Denver near the Utah border.
- Site established as the Colorado Area Engineer Office in 1943 by the Manhattan Engineer District (MED) to procure uranium for the Manhattan Project.
1943 - 1946: MED built and operated a uranium refinery to concentrate uranium from vanadium mill tailings

1947: the Atomic Energy Commission established the domestic uranium procurement program

1953 - 1958: Research program known as the Grand Junction Pilot Plant operated to test experimental uranium ore milling techniques
The Grand Junction uranium refinery refined the mill product into uranium oxide known as “yellow cake”.

Uranium oxide was placed in 55-gallon drums and shipped to the eastern U.S. for final processing.
1951: A uranium concentrate sampling plant and an assay laboratory were constructed and operated until 1974


1986 – 2001: DOE conducted cleanup of radioactive contamination at the Grand Junction Site

2001: DOE transferred the majority of site property ownership to the Riverview Technology Corporation, a local nonprofit entity with a small portion of land transferred to the U.S. Army Reserve.
Grand Junction Contractors

- U.S. Vanadium Corporation, 1943–1946
- U.S. Army Manhattan Engineer District (AEC controlled site operations) 1947
- Swinerton and Walberg, 1957–1959
- Bendix Field Engineering Corporation, 1975–1986
- WASTREN, Inc. and MACTEC-ERS, 1996–2002
- S.M. Stoller Corporation, 2002–Present
Other Grand Junction Contractors

- Analytical Chemistry Laboratory
  - Lucius Pitkin, Inc., 1956–1965
  - Analytical Chemistry Laboratory continued operations through follow-on contractors until its closure in 2003

- Uranium Concentrate Sampling Plant
  - Ledoux and Company, 1948

- Grand Junction Pilot Plant
  - American Cyanamid Company, 1953–1954
Site Remediation

- Uranium Mill Tailings Radiation Control Act (UMTRCA)
  - Enacted in 1978
  - Established a uranium mill tailings remediation program
  - Designated 22 inactive uranium ore-processing sites for remediation

- Uranium Mill Tailings: Sandy waste material from uranium milling operations. The ore residue contains radioactive decay products and heavy metals.
Uranium Mill Sites

- Uranium mill sites
  - Arizona
  - Colorado
  - Idaho
  - New Mexico
  - Oregon
  - Pennsylvania
  - Texas
  - Utah
  - Wyoming

- Remediation periods covered for uranium mill sites under EEOICPA
- Operational periods covered for some sites under EEOICPA
Uranium Mill in Monument Valley, Arizona

- Uranium ore processing mill
- Operated from 1955 - 1968
- Located on the Navajo Nation about 15 miles south of Mexican Hat, Utah
- Milling process produced radioactive mill tailings
- EEOICPA coverage for remediation:
  - May 1989 – February 1990
  - September 1992 – May 1994
Uranium Mill in Tuba City, Arizona

- Located on the Navajo Nation and close to the Hopi Reservation
- Processed more than 800,000 tons of uranium ore between 1956 - 1966
- Contamination from mill tailings in evaporation ponds affected 33.5 acres with windblown tailings affecting an additional 250 acres
- EEOICPA coverage for remediation:
  - January 1985 – February 1986
  - January 1988 – April 1990
Uranium Mill in Durango, Colorado

- Located ¼ mile from the city of Durango
- Constructed on the site of a former lead smelter that operated from 1880 - 1930
- Vanadium produced from 1942 – 1946
- Uranium ore produced from 1949 – 1963
- EEOICPA coverage for operations:
  - 1948 - 1953
- EEOICPA coverage for remediation:
  - October 1986 – May 1991
Climax Uranium Mill in Grand Junction, Colorado

- Located in the city of Grand Junction
- Originally was a sugar beet mill established in 1899
- Operated as a uranium and vanadium mill from 1950 – 1970
- From 1950 to 1966, mill tailings were available to private citizens and contractors, and used as fill dirt and as a component of concrete and mortar
  - Radioactive mill tailings were hauled to more than 4,000 private and commercial properties in the Grand Junction area, which were later remediated by DOE
- EEOICPA coverage for remediation:
  - December 1988 – August 1994
Uranium Mill in Gunnison, Colorado

- Uranium ore processing facility
- Located on 61.5 acres adjacent to Gunnison County Airport, ½ mile southwest of the city of Gunnison, Colorado
- Processed approximately 540,000 tons of uranium ore between 1958 and 1962
- Mill tailings covered approximately 39 acres of the site
- EEOICPA coverage for remediation:
  - September 1991 – December 1995
Uranium Mill in Maybell, Colorado

- Located in northwest Colorado about 5 miles from the small town of Maybell
- Processed approximately 2.6 million tons of uranium ore between 1957 and 1964
- EEOICPA coverage for remediation:
Uranium Mill in Naturita, Colorado

- Uranium and vanadium ore processing facility
- Located on 79 acres in western Colorado about 2 miles from the city of Naturita, Colorado
- Operated intermittently between the 1930’s and 1958 processing about 704,000 tons of ore
- Before 1942 only vanadium ore was processed; began processing uranium in 1942
- EEOICPA coverage for remediation:
  - May 1994 – November 1994
Old Uranium Mill in Rifle, Colorado

- Uranium and vanadium ore processing facility
- Located less than ½ mile east of the city of Rifle, Colorado
- Processed vanadium ore from 1924 – 1932 and vanadium and uranium ore from 1942 – 1958
- EEOICPA coverage for remediation:
  - September 1988 – September 1989
  - April 1992 – October 1996
New Uranium Mill in Rifle, Colorado

- Uranium and vanadium processing facility
- Located about 2 miles southwest of Rifle, Colorado
- Replaced old Rifle mill in 1958
- Produced uranium and vanadium concentrates from 1958-1973
- EEOICPA coverage for remediation:
  - September 1988 – September 1989
  - April 1992 – October 1996
Uranium Mill No. 1 in Slick Rock (East), Colorado

- Located in remote area of southwest Colorado, about 22 miles from the town of Dove Creek
- Constructed in 1931, designed to extract radium salts and vanadium from locally mined ores
- Uranium ore processed from 1945 to early 1960’s
- EEOICPA coverage for remediation:
  - 1995 - 1996
Uranium Mill No. 2 in Slick Rock (West), Colorado

- Located in remote area of southwest Colorado, about 22 miles from the town of Dove Creek (about 1 mile from Slick Rock East)
- Operated from 1957 - 1961
- Processed uranium and vanadium ore
- EEOICPA coverage for remediation:
  - 1995 - 1996
Uranium Mill in Lowman, Idaho

- Located approximately 73 miles from Boise and ½ mile from the town of Lowman
- Site of former mechanical concentrator for sands containing rare-earth elements, uranium, and thorium
- Operated from 1955 - 1960
- EEOICPA coverage for remediation:
  - 1992
  - 1994 - Present
Uranium Mill at Ambrosia Lake, New Mexico

- Uranium ore processing facility
- Located in Ambrosia Lake Valley about 25 miles north of Grants, New Mexico
- Former mill processed more than 3 million tons of uranium ore between 1958 and 1963
- Late 1970’s to early 1980’s operated an ion exchange system (extracting uranium from mine water)
- Mill operations ceased in 1982 leaving radioactive mill tailings on approximately 111 acres
- EEOICPA coverage for remediation:
  - July 1987-April 1989
  - October 1992-July 1995
Uranium Mill in Shiprock, New Mexico

- Located in northwest New Mexico on the Navajo Nation near the town of Shiprock
- Uranium and vanadium ore processing facility
- Operated from 1954 – 1968
- EEOICPA coverage for remediation:
  - October 1984 – November 1986
Uranium Mill and Disposal Cell in Lakeview, Oregon

- Located approximately 1.5 miles from the town of Lakeview and 16 miles north of the California-Oregon border
- Uranium ore processed at the site from 1958 – 1961
- EEOICPA coverage for remediation:
  - 1986 - 1989
Vitro Manufacturing in Canonsburg, Pennsylvania

- Located in southwestern Pennsylvania about 20 miles from downtown Pittsburgh
- Processed uranium and other ores from 1911 - 1957
- EEOICPA coverage for operations:
  - Beryllium Vendor - 1948
- EEOICPA coverage for remediation:
  - 1983 – 1985
  - 1996
Uranium Mill in Falls City, Texas

- Located approximately 40 miles east of San Antonio and 8 miles from Falls City
- Uranium ore processing facility
  - Uranium extraction from sandstone ore
  - Uranium extraction from mill tailings
- EEOICPA coverage for remediation:
Uranium Mill in Mexican Hat, Utah

- Located in southeast Utah on the Navajo Nation, 1.5 miles from the town of Mexican Hat and about 10 miles north of the Utah-Arizona border
- Uranium ore processing mill operated from 1957 – 1965
- Much of the ore brought to the mill also contained copper which was processed for recovery
- EEOICPA coverage for remediation:
  - July 1987 – October 1987
  - September 1992 – February 1995
Uranium Mill in Monticello, Utah

- Located in southeastern Utah in the city of Monticello
- Constructed in 1942 to produce uranium and vanadium; built at the site of a former uranium and vanadium ore buying station
- Operated until 1960 and produced 900,000 tons of ore
- EEOICPA coverage for operations:
  - 1948 - 1960
- EEOICPA coverage for remediation:
  - 1983 – 2000
Uranium Mill in Riverton, Wyoming

- Located 2 miles from the town of Riverton and within the boundaries of the Wind River Indian Reservation (Northern Arapahoe and Eastern Shoshone Tribes)
- Uranium and vanadium ore processing mill operated from 1958 – 1963
- EEOICPA coverage for remediation:
  - May 1988 – September 1990
Uranium Mill in Converse County, Wyoming (Spook Site)

- Uranium and vanadium processing facility
- Located on 19 acres about 32 miles north of Glenrock, surrounded by large, privately owned sheep and cattle ranches
- Operated from 1958 – 1963
- EEOICPA coverage for remediation:
  - April 1989 - September 1989
Programs for Former Uranium Workers

- Energy Employees Occupational Illness Compensation Program Act (EEOICPA)
  - Administered by the Department of Labor
  - Covers employees at the Grand Junction Facilities
    - August 1943 – October 2001
      - Special Exposure Cohort: Grand Junction Operations Office
        March 23, 1943 through January 31, 1975
    - Remediation: November 2001 – Present
  - Covers employees at Uranium Mill Sites
    - During remediation periods
    - Operational periods for Uranium Mills in Durango, Colorado, and Monticello, Utah also covered under EEOICPA
Programs for Former Uranium Workers (cont’d)

- Radiation Exposure Compensation Act (RECA)
  - Administered by the Department of Justice
  - Eligibility
    - Uranium miners, millers, and ore transporters
    - Onsite participants at atmospheric nuclear weapons tests
    - “Downwinders” of the Nevada Test Site
  - The Radiation Screening and Educational Program (RESEP)
    - Medical screenings, referrals, radiogenic cancer and disease education
    - Assistance with medical documentation for RECA program

- RECA coverage for LM sites:
  - Former employees that worked in the Grand Junction Site uranium production areas
  - Milling operations at facilities that operated from 1942 through 1971
EEOICPA Claims Processing

1. Receive EEOICPA records request via SERT
2. Enter request in the LM EEOICPA tracking database
3. Identify responsive records
4. Retrieve and scan records
5. Upload PDF files into SERT and select recipients
Information Sent on Parts B & E

- **Part B (DOL Employment Verification)**
  - Employment dates if available
  - Training, medical, radiological, Industrial Hygiene (IH), and employment records as needed

- **Part B (NIOSH)**
  - Radiological, monitoring reports, X-ray results, and dose

- **Part E (DARs)**
  - Specific records per DOL requests (e.g., personnel, IH, medical, payroll, monitoring, radiological, and dose)
Records Searches

- LM’s electronic recordkeeping system provides retrieval of personnel, medical, training, and radiological files; security badge history; industrial hygiene records; radiological information; training records; and limited job history. The records are in electronic and paper form with hard copy records residing at the LMBC.

- DOSE records – Retrieved from the Idaho National Laboratory

- Records for the uranium mines, mills, and ore-buying stations are limited
  - Older records were not kept for long-term retention
  - Contractors and subcontractors retained employee records
Process Improvements

- Finding aids housed in the LM electronic recordkeeping system provide a single, consolidated search tool to locate responsive documents
- Centralized tracking system used to manage the processing of inherited and new EEOICPA claims
EEOICPA Contacts
Grand Junction Site and Uranium Mills

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