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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

March 28, 2001

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FROM:


John W. Craig
Assistant for Operations, OEDO

SUBJECT: UPDATE ON FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM LIST

Attached for your information is an update of the staff's analysis of 156 sites listed on the Formerly Utilized Site Remedial Action Plan list. The staff previously provided an analysis of these sites in October 2000.

Attachment: As stated

- cc: W. Travers, EDO (w/o attachment)
- C. Paperiello, DEDMRS (w/attachment)
- W. Kane, DEDR (w/o attachment)
- P. Norry, DEDM (w/attachment)
- J. Craig, AO (w/attachment)
- G. Smith, OEDO (w/attachment)
- J. Greeves, NMSS (w/o attachment)
- M. Weber, NMSS (w/o attachment)
- SECY (w/attachment)
- OGC (w/attachment)
- OCA (w/attachment)
- OPA (w/attachment)
- OIP (w/o attachment)
- EDO R/F (w/attachment)

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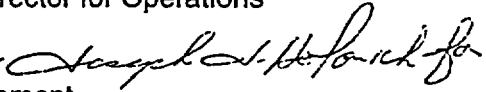


UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 14, 2001

MEMORANDUM TO: John W. Craig
Assistant for Operations
Office of the Executive Director for Operations

FROM: John T. Greeves, Director 
Division of Waste Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: UPDATED NUCLEAR REGULATORY COMMISSION
ANALYSIS THE DEPARTMENT OF ENERGY'S
FORMERLY UTILIZED SITES REMEDIAL ACTION
PROGRAM LIST

Staff previously provided an analysis of sites listed in a September 6, 2000, *USA Today* article on toxic exposure to nuclear weapons production workers. The analysis was forwarded to Commission staff in early October 2000. At about the same time, the U.S. Department of Energy (DOE) posted a list of sites involved in nuclear activities on their Environmental Management web page. The list, containing 577 sites, is known as the "1995 list of sites for possible involvement in nuclear weapons and nuclear energy related activities" and is also referred to as the "Formerly Utilized Site Remedial Action Plan" list or "FUSRAP" list. These 577 sites on the 1995 list were considered for inclusion into the FUSRAP program. Staff commenced review of the DOE "FUSRAP" list in October 2000.

The attached table and analysis of 156 sites summarizes our review of the "FUSRAP" list. The table, which we have provided to DOE staff, contains information only on those sites in the "FUSRAP" list that identified the U.S. Nuclear Regulatory Commission (NRC) as the cognizant agency. Because DOE and other agencies will continue, well into the future, to identify information in their files on all 577 sites on the "FUSRAP" list, our attached analysis will change (and possibly increase in size) as information is exchanged between the agencies and researched by our staff. As DOE completes its review of all sites on the "FUSRAP" list, we will continue to provide DOE with information from our files on sites that had NRC's or the Atomic Energy Commission's regulatory involvement. However, the staff believes that it is important to provide the Commission with this updated information now, due to public awareness of this issue. In addition, staff is compiling information regarding sites with decommissioning funding problems in response to SRM-SECY-00-0180. Finally, staff is coordinating with DOE about possibilities for creating a combined Federal database for all terminated sites.

Attachment:
DOE "FUSRAP" List Review Summary

CONTACT: Gary W. Purdy, DWM/NMSS
(301) 415-7897

**U.S. Department of Energy's Formerly Utilized Site
Remedial Action Plan List Review Summary**

Division of Waste Management (DWM) staff has reviewed the U.S. Department of Energy's (DOE) web posting titled "1995 list of sites reviewed for possible past involvement in the nuclear weapons related activities", which is also known as the Formerly Utilized Site Remedial Action Plan list or "FUSRAP list." This list contains names and rough locations of 577 sites that performed contract work in the past with Atomic Energy Commission (AEC)/DOE. Of the 577 listed sites, 156 were identified on the FUSRAP list as under U.S. Nuclear Regulatory Commission (NRC) regulatory cognizance. To avoid duplication of effort with DOE, the Department of Defense (DOD) and the U.S. Environmental Protection Agency (EPA), DWM staff conducted database searches only for sites that DOE identified were under NRC's cognizance (156 of 577). However, many sites on the FUSRAP list which were identified as "eliminated", could be NRC formally licensed sites but were not identified as such in the FUSRAP list. These sites are currently under review by DOE, but may be referred back to NRC when their review is completed.

The DOE list also included 151 out of the 153 sites mentioned on the *USA Today* article published on September 6, 2000. The two *USA Today* listed sites not found in the FUSRAP list are Phelps Dodge Copper in Bayway, NJ and Raytheon in Allston, MA. However, this is consistent with DOE records which indicate these sites likely never handled nuclear materials. Of the remaining 151 *USA Today* listed sites, only 36 were identified in the FUSRAP list as NRC cognizant. These 36 *USA Today* sites are incorporated in the attached list of 156 sites.

The following is the breakdown on the status of the 156 sites DWM staff reviewed:

- A. 111 out of the 156 sites are terminated (expired, retired or transferred to State) licenses (71%).
- B. 12 out of the 156 sites are active NRC licensees (8%).
 - 1. 2 out of 12 sites are currently undergoing decommissioning (1%).
 - a. **Westinghouse Electric**, Bloomfield, NJ completed decommissioning and is waiting for NRC to perform confirmatory survey.
 - c. **BabcoX & Wilcox Co.**, Parks Township, PA
 - 2. The remaining 10 out of 12 sites are active licensees not currently undergoing decommissioning.
- C. 6 out of 156 sites have Agreement State licensees (4%).
 - 1. **Marion Mill site**, Boulder, CO
 - 2. **MIT, Hood Bldg**, Cambridge, MA
 - 3. **Colombia University**, New York, New York
 - 4. **Horizons, INC.**, Cleveland, OH - Site Decommissioning Management Plan (SDMP) site transferred to the State in 1999, estimated completion in 2000.
 - 5. **Nuclear Materials**, Concord, MA -SDMP site transferred to the State on 3/97; active decommissioning.
 - 6. **Englehard Industries**, Plainville, MA - SDMP site transferred to the State on 1997, estimated completion in 2003.

- D. 4 out of 156 sites have been identified as EPA cognizant (3%).
1. Lindsay Light and Chemical, W. Chicago, IL
 2. U.S. Radium Corp., Orange, NJ
 3. Wolff-Alport and Co., Brooklyn, NY
 4. Palmerton Ore Buying Site, Palmerton, PA
- C. 19 of the 156 sites have been identified as DOE cognizant (12%).
1. 1 of the 19 sites has DOE documents identifying an NRC license (C-3448), which does not correspond to NRC records, **Penn Salt Manufacturing Co. (former Whitmarsh Research Laboratories)**. NRC records show other licenses (STB-0014, C-04937) in that area for Penn Salt Chemical, but not license C-3448 or at the address identified by DOE. (0.6%).
 2. The remaining 18 of the 19 sites are not NRC or Agreement State-cognizant, and DOE has agreed that it is their lead to followup (or identify another lead agency)
- D. 1 of the 156 sites has been identified as Tennessee Valley Authority cognizant (0.6%).
1. **Uranium Recovery Pilot Plant and Laboratory, Muscle Shoals, AL**
- E. 2 of the 156 the sites have been identified as Agreement State and active NRC licenses (1.3%)
1. **General Atomics, La Jolla, CA**
 2. **United Nuclear Corp, Church Rock, NM**
- F. 1 of the 156 sites has been identified as DOE and NRC cognizant (0.6%)
1. **West Valley Demonstration Project, Ashford/ West Valley, NY**

Follow-up:

DOE has established an online, secure database for cooperating Federal agency use, and continues to review their records. DOE intends to eventually establish an additional Internet-based database for public use. NRC coordination with Agreement States may be required to complete information regarding transferred sites and to make Agreement States aware of the public database. Finally, DOE plans a second database that will incorporate all decommissioned facilities that were licensed by Federal agencies.

Conclusion:

NRC has completed record reviews for all (100%) of the 156 sites on the DOE "FUSRAP List" that were identified as being under NRC's regulatory cognizance. No significant findings or lack of accountability were revealed. As DOE completes its review of all sites on the FUSRAP list, we will continue to provide DOE with information from our files on sites that had NRC's or the AEC's regulatory involvement, and we will continue to update our own analysis as more information becomes available.

Note: Some of the description fields are left blank due to no information available (from DOE), insufficient information in terminated license database, or the license is still active.

“FUSRAP” Sites Review (*NRC*)

ST	Location	Site Name/ Alternate Names	NRC Status	License #/ Docket #	Exp.	POC	Description	DOE Status	DOE #
AL	Muscle Shoals	Tennessee Valley Authority -Uranium Recovery Pilot Plant and Laboratory E&D Building 35660	Terminated Expired Transferred Terminated	01-16821-01 01-16821-02 01-16824-01 SNM-01554	2/26/81 10/31/87 12/31/80 7/14/80	TVA	-Loose S-35, U-235. All solutions, plant mat'l and soil were disposed in burial ground. - -Mat'l transferred to TVA, 41-08165- 07 -Licensee Indicated no mat'l ever possessed under SNM license.	NRC/ TVA	AL.01
AL	Birmingham	Southern Research Institute	Expired	01-00423-02 01-00423-03 01-00423-06	5/31/58 1/31/68 12/31/62	State	Part 30 license. Slag buried on Southern Research Inst. Farm in Jefferson County, AL law 10 CFR 20.	NRC	AL.03
AZ	Cameron	Cameron Station (Former Name)	Expired	P-04209	3/31/60	NRC/ State	Uranium Mining Facility. ORNL determined it likely that no material was possessed under license. (After 2/13/61, these activities weren't licensed per 40.13(B) of 10 CFR 40)	NRC?/ BIA	AZ.02
CA	Hawthorne	Northrop Aircraft. Inc (former name) 1001 East Broadway Building 1-85 and Radiation Lab Facilities	Terminated/ Expired Expired Superceded Expired Decomm'd	04-00860-01, Thru -08, C-04567 C-03755 SNM-00342 R-90?	7/31/58 to 9/30/62 12/31/61 6/30/59 12/31/65 1963	State	AEC ltr dated 8/3/62 in license 04- 00860-10 file indicates license transferred to state. Lab studies to determine feasibility of non- destructive testing of brazing through autoradiographic means, evaluate cleaning techniques for precision gears, and gun sight feasibility studies. . C-04567 is 16,000 lb. Loose Mg-Th. (Up to 4%, i.e. 640 lbs). SNM license for 240 gm Pu and 4,240 gm U-235. Mat'l transferred to other licenses or disposed. DOE documents indicate the site was involved in nuclear aircraft propulsion research, and had a 1 MW TRIGA reactor, which was decommissioned in 1963.	NRC	CA.0- 02
CA	Hollywood	Shannon Luminous Metals Co. 7356 Santa Monica Blvd	No License	Docket: . 40-03478		???	No additional info avail	NRC	CA.0- 03

CA	Berkeley	University of California (Chemistry Building and Radiation Laboratory)	Superceded Superceded Expired Superceded Terminated Expired	04-02543-01. -02 C-04369 C-04884 SNM-01471 STB-00443	5/31/59 2/11/59 10/31/59 10/31/61 2/4/82 9/30/64	NRC/ State	-04 licenses for 50 Ci byproduct mat'l, to study irradiation effects on structural mat'ls. Second 04 license superceded by exempt license(at a gov't owned facility (CANEL)). Waste may have been disposed at sea in concrete blocks or steel drums, and/or to sewer -C-04369: Thorium crucibles. -C-04884, STB-00443: 75 lbs source mat'l for R & D	NRC	CA.05
CA	Riverside	Hunter Douglas/Bridgeport Brass 3016 Kansas Avenue	Expired	C-03830 C-03831 C-05085	10/1/58 9/30/60 4/30/61	State	1) 100 lbs Th-Mg, up to 3% Th 2) 6000 lb loose Ur for rolling, extruding etc. 3) 2 lbs Thorium Nitrate for analytics. Uranium Machining	NRC	CA.11
CA	Richmond	Stauffer Chemical Company Metals Division	Expired	SUB-00593	5/31/65	State	License transferred to agreement state.	NRC	CA.12

CA	Pleasanton (San Jose)	General Electric Vallecitos Nuclear Center 2151 S. First Street, 175 Curtner Ave	Expired/ Terminated Terminated Expired Terminated Superceded Expired Expired Expired Expired Expired Expired Expired Superceded Expired Expired Superceded Expired Terminated Superceded Superceded Superceded Terminated Superceded Expired Expired Expired Expired Expired Superceded Expired Expired Expired Superceded Expired Superceded Superceded Transferred Expired Retired	04-00839-01 thru -17 C-04282 SMB-00164 SNM-00054 SNM-00101 SNM-00102 SNM-00117 SNM-00134 SNM-00135 SNM-00136 SNM-00158 SNM-00170 SNM-00173 SNM-00206 SNM-00272 SNM-00321 SNM-00403 SNM-00420 SNM-00511 SNM-00728 SNM-00737 SNM-01056 SNM-01060 SNM-01124 SNM-01137 SNM-01200 SNM-01281 SNM-01406 SUC-00904 SUI-00741 C-03351 C-04028 C-04282 SNM-00044 SNM-00054 SNM-00150 12-21403-01	7/31/58 to 8/31/76 10/17/61 4/30/64 8/20/85 10/18/61 12/31/57 12/31/57 6/15/58 10/31/58 10/31/58 ? 12/12/62 4/1/58 9/14/66 2/28/59 12/31/66 10/29/63 9/14/66 7/31/65 12/31/66 5/4/67 7/31/68 5/31/68 6/30/69 8/30/70 9/30/70 4/10/79 11/30/73 11/30/69 11/30/66 6/21/60 3/31/61 10/17/61 9/1/59 8/20/85 5/4/67 8/31/91	State	DOE funding cleanup. Co-60 license. SNM-150: possible disposal by land burial. Several of the expired SNM licenses were for importation of material. SUC license: likely no U material ever possessed by licensee.	NRC	CA.13
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CA	La Jolla	General Atomics - Gulf General Atomics - Gulf Oil Corporation	Active Retired Retired Retired Superceded Superceded Expired Expired Expired Expired Expired Expired Expired	SNM-00696, 04-14395-01E 04-14395-02E 04-25889-01 C-3240 04-01611-06 SNM-00816 SNM-00862 SNM-00911 SNM-01181 SNM-01185 SNM-01278 SNM-01279 SNM-01320	11/11/11 5/31/91 10/31/93 3/31/93 2/28/60 12/31/64 2/28/66 6/30/67 5/1/70 4/24/70 12/31/71 8/31/81 1/31/73	State/ NRC	Part 70 license. Several of the expired SNM licenses were for importation of material.	NRC	CA.14
CO	Grand Junction	American Smelting and Refining Co.		Licenses in NJ, FL, TX, AZ at temp job sites		DOE	DOE do not indicate American smelting in CO was an NRC licensee. NRC has no record of a license	NRC?	CO.0-01
CO	Denver	Bureau of Mines -224 Customhouse -Building 20, Denver Federal Center	Expired	C-04863 05-06468-02	9/30/60 7/8/70	State	-1 lb of source material used as a catalyst. Thorium Nitrates and Oxides Buried in steel containers in concrete vault. -Cd-109, Cs-137, H-3, Am-241, Fe-55 and Cf-252, sealed sources	NRC	CO.0-02
CO	Denver	Denver Equipment Co. (former)	License not found (DOE)			DOE		NRC	CO.0-04
CO	Golden	Colorado School of Mines	Superceded/ Transferred Transferred Expired Terminated/ Transferred	05-02258-01 Thru -04 05-04607-01 C-05379 SNM-00788 SNM-00972	3/31/59 to 10/31/68 1/31/69 11/30/61 3/31/70 7/31/69	State	SNM licenses transferred to State. C-05379 license waste shipped to Phillips Petroleum for disposal. 300 lbs slag licensed.	NRC	CO.01
CO	Uravan/Nucla	Uravan Mill Site (former)	Transferred Expired	660-025 P-00575	2/28/61	State	Thorium Mill. After 2/13/61, these type of activities no longer required licensing, law site records.	NRC/ State	CO.02
CO	Gateway	Gateway Mill (as of 1/95)	License not found (DOE)	P-03782 P-03994	7/31/59	DOE	Not licensed, but may be contaminated per OSTP	NRC	CO.04

CO	Vanadium	Vanadium Mill (former)	license not found (DOE)	R-00170	12/1/58	DOE	Not licensed, but may be contaminated per State of Colorado. License is with Sinbad Uranium Co., in Leadville, CO. Mat'l transferred to R-00215.	NRC	CO.05
CO	Denver	Rocky Mountain Research Laboratories (former) -Colorado Research - 1020 Yuma St.	Terminated/ Transferred	R-00162	11/1/57	State	State survey in 4/24/79 found radium contamination.	NRC	CO.06
CO		Hendricks Mill	Terminated	329-01	10/12/99	State	Title Restriction I	NRC?	CO.07
CO	Boulder	Marion Mill Site (former) -Lenway Mining and Development Corp, Sweeney Mining and Milling Corp., Wah Cheng - 1061 Grant Place	Active Superceded Transferred	149-01 SUA-00724 SUC-00912	12/31/66 1/31/70	State	No operations ongoing. State is trying to get listed on FUSRAP list. SUA: 325 tons U bearing water.	NRC	CO.09
CO	Golden	Coors Porcelain Fuel Elements Plant 7 th and Ford St.	Expired	SMB-00746 SUE-07182 (70-00814) (40-07096)	3/31/67	State	Part 40 license. 30,000 lb loose source mat'l (uranium and thorium)	NRC	CO.12
CO	Denver	University of Denver Research Institute -University Park	Expired/ Transferred Expired Terminated Superceded Transferred Superceded Transferred Transferred Transferred	05-00251-01, thru -11 05-01886-07 C-04146 SMB-00257 SNM-00408 SNM-00497 SNM-00830 STB-00860 SUB-00257	4/30/58 to 3/31/66 5/31/68 8/23/61 5/31/64 10/31/61 6/30/64 6/30/64 12/31/68 5/31/67	State	Transferred to Agreement State SMB license: 16 lbs U and Th for research. SNM Licenses: 1.5 gms loose U-235, Pu-Be Pellets. SUB license: 50 lbs U for R&D	NRC/State	CO.13

CT	New Haven	United Nuclear Corp. Olin Mathieson -Charles A. Pfizer Co, NELCO 275 Winchester Ave changed to Research Center Shelton Ave Winchester Repeating Arms Plant, New Haven 4 -275 Winchester Ave.	Terminated	SNM-368 06-06884-01 06-08166-01 06-19136-01 C-03660 C-04265 C-04538	10/31/78 5/31/74 10/31/84 2/1/58 9/30/59 1/31/61	NRC	- According to DOE records part of Olin Mathieson became United Nuclear Corp. and an AEC license was issued at that time. No NRC records to confirm. - Sealed 45 micro Ci Sr-90 source. - .01 Ci each of loose C-14, Ci-36 and Co-60, Mo-99 and sealed Co-60. ORNL determined site closeout satisfactory. Mat'l transferred to Radiac Research Corp, Brooklyn NY - Mat'l transferred to Texas Nuclear, license TX-6-3524 - 1 lb loose source mat'l for military projects, Th dioxide and chloride. - 3 lbs loose source mat'l as catalyst. - 1,0000 lbs loose Th-mag alloy (40 lbs Th) for impact sensing device response characterization.	NRC	CT.0-02
CT	Middletown	Pratt and Whitney Corp, CANEL Facility (former) -Connecticut Advanced Nuclear Engineering Lab; United Aircraft Corp.	Terminated	06-00550-01	5/31/58	NRC	Work under FOX project moved to Canal in Middletown, CT in 5/57. Disposal by recognized means, such as burial at sea. Cr-51, Co-60, Fe-55, Fe-59, Ta-182, Sb-124, Kr-85, and other byproduct mat'l, less than 0.5 ci total. Development work for nuclear aircraft engine. CANEL was exempt from licensing by 30.6 of 10 CFR 30.	NRC	CT.04
CT	Danbury	Sperry Products, Inc (former)	Terminated	C-04077 S-04756 (export license)	4/30/59	NRC	165 lb Natural U, Normal U, 4/17/58- six fuel elements to be returned to Canada	NRC	CT.07
CT	Middletown	Wesleyan University Physics Dept, Blo Dept, Chem Dept	Active	06-00483-10	12/31/04	NRC	Transfers to Oak Ridge and Crossroads Marine Disposal Co. in the late 1950's.	NRC	CT.12
CT	Stamford	American Cyanamid Co. (former)	Terminated	06-00659-02	10/31/94	NRC		NRC	CT.13
CT	Stamford	Dorr	Terminated	06-17272-01 SUB-00967	4/25/79	NRC	Part 30 license. Clean Region I inspection.	NRC	CT.14

DC	Washington, DC	National Bureau of Standards (former) -University of the District of Columbia Department of Commerce	Active (terminated licenses listed following, for reference)	19-23454 (05-03166 08-00566 SNM-362 SMB-00405 SNM-01250)	5/31/02	NRC	Located in Gaithersburg, MD	NRC	DC.01
FL	Gainesville	University of Florida -J. Hillis Miller Health Center, College of Medicine, Dept of Radiology	Terminated	SUB-00731	10/31/66	NRC		NRC	FL.09
IL	S. Beloit	Besley-Wells (former)	License not found (DOE)			DOE		NRC	IL.0-08
IL	W. Chicago	Lindsay Light and Chem/ Lindsay Chemical - Kerr-McGee, Reed-Keppler Park.	License Not Found	Docket 40-2061		EPA/ State	Kerr McGee site transferred to Illinois	NRC/EPA/ State	IL.10
IL	Chicago	Crane.Co. (former)	Terminated	12-01838-01 C-02614 C-04746	1/31/58 3/31/58 5/31/60	NRC		NRC	IL.13
IL	N. Chicago	Fansteel Metallurgical	Terminated	12-03236-03 C-05047 SUB-00225	11/30/88 3/31/61 2/5/72	State	Part 30 and 40 license. (1) Removal and disposal by Adco services. (2) 10 lbs DU, (3) 7,000 lb DU in UO2 to insulate sintering furnaces. Disposed to Nuclear Eng of Morehead, KY.	NRC	IL.16
IL	Chicago	Armour Research Foundation of the Illinois Institute of Technology (former) -ARF, Ill. Inst. of Tech, IIT	Terminated	12-00527-19	12/31/91	State	Part 30 license	NRC	IL.17
IL	Dolton	Kaiser Aluminum Corp. -Kaiser Chemicals	Terminated	12-15941-01 SUB-00945	2/28/79 2/28/78	State	Sealed Source authorized Uranium oxide.	NRC	IL.19

IL	Metropolis	Allied Chemical Plant	Terminated	SUB-00945	2/28/78	State	400,000 lbs U3O8. Prior to 1964, waste disposed as slurry to Ohio River. Later, customer delegated to take waste. No closeout survey. ONRL recommends reviewing 1976 alpha inspection report to current standards.	NRC	IL.33
IN	South Bend	University of Notre Dame	Active Terminated Terminated	13-01983-15 SUD-197 SNM-198	3/31/07 10/31/95 9/30/95	NRC		NRC	IN.0-01
IN	Lafayette	Purdue University Van der Graaf Laboratory (former) -Chemistry Bdg, Locomotive lab.	Active	13-02812-04 SUD-296 SNM-142	12/31/04 8/31/04 8/31/09	NRC		NRC	IN.02
IN	Bloomington	University of Indiana	Active	13-00108-05	11/30/02	NRC		NRC	IN.06
IN	Shelbyville	General Electric Plant	Terminated	13-15523-01 13-20028-01 SNM-00421	7/31/83 12/31/85 9/30/62	NRC	SNM license for sealed U235 source (494 gm), were to be returned to G.E. San Jose, but transfer not documented	NRC	IN.07
IN	Indianapolis	American Bearing Corp. (former)	Terminated	C-03737	5/01/59	NRC	Part 40 License	NRC	IN.09
KS	Merriam	Spencer Chemical Co., Jayhawks Works	Terminated	SNM-154 SNM-329	12/28/64 9/30/62	State	Part 40 License	NRC	KS.0-01
MA	Boston	EG&G (Edgerton Germeshausen & Gierr, Inc).	Terminated	20-1447-01,- 03E	9/13/71 9/25/74	State	Distribution license address changed to Salem, MA.	NRC	MA.0-02
MA	Plainville	Englehard Industries -Makepeace, D.E. Div Rt. #152	Terminated SDMP site undergoing Decom.	SNM-00185	7/31/63	State	Transferred to MA in 1977. Estimated completion in 2003.	NRC	MA.0-03
MA	Medford	Tufts University	Terminated	20-02307-0	1/31/02	State	Part 30 License	NRC	MA.0-05
MA	Cambridge	MIT, Hood Bdg (former)	Active	SNM-986	5/31/04	State		NRC	MA.01
MA	Concord [Cambridge, accord to DOE]	Nuclear Metals	Retired	SMB-179 SUB-1452		State	Transferred to agreement state. Decommissioning ongoing	NRC	MA.09

MA	Newton	NRC Equipment (former)	Terminated	20-01465-01 thru -06	3/31/62 12/31/63 2/28/66 5/31/66	State	[National Research Corp in Cambridge, MA, per DOE]	NRC [DOE to send files]	MA.19 MA.10
MA	Boston	Tracerlab, Inc 130 High Street	Expired	20-01382-01 thru -13 SNM-00017	11/30/58 thru 5/27/66 6/30/64	State	SNM-819, exp. 7/3/79 in Waltham MA, may have taken over coverage for the expired SNM-17, H-3, and Po- 210 for export.	NRC	MA.11
MA	Worcester	Norton Chemical, Inc	Terminated	C-03430 STB-00770	1/31/60 4/30/68	NRC	Part 40 license	NRC	MA.12
MA	Graniteville (Westford)	C.B. Sargent & Sons	Terminated	STB-00926	2/8/72	State	up to 1500 lbs of loose Uranium and Thorium for Testing of Fabrication Equipment (extrusion and drying processes on slurry). No survey/inspection reports.	NRC	MA.17
MA	Attleboro	Metals and Controls, FSM Dept (former) -M& C, Texas Instruments	Terminated	20-01266-01 SMB-00216	1961 1973	State	Part 30 and 40 licenses. Region I inspection found insignificant contamination, site terminated, NRC actions complete	NRC	MA.21
MD	Baltimore	Bendix Corp, Frieze Division (former)	License not found (DOE)	N/A	N/A	DOE	According to DOE, Not involved in radioactive material work, However, Bendix does have an expired license in Baltimore, MD: 19-03376-02, 11/30/73.	NRC	MD.0- 01
MD	Middle River	Glenn L. Martin Co.	Expired Expired Terminated	C-03572 19-01398-04 C-03508	6/1/58 3/31/59 3/4/58	NRC	Part 30 and 40 License	NRC	MD.0- 02
MD	Bethesda	Public Health Service, National Institutes of Health	Terminated	SNM-1345	3/31/93	State/ NRC	Part 70 License	NRC	MD-0- 04
MD	Baltimore	Johns Hopkins University	Terminated	19-02858-04 19-00585-09 SNM-00354	12/31/89 1/31/61 3/31/73	State/N RC	Part 30 and 70 License	NRC	MD.02
MD	Baltimore	Max Zuckerman & Sons, Inc (former) 5245 Fairlawn Ave. -Maryland Alloys Corp.	Terminated/ Expired	S-06287 C-05178 SUC-00060	6/30/61 1/31/62	State	-Part 40 License - Tin dross and scrap containing nat U. for resale (3,028 lbs U) -2,075 lbs natural U at .1% in Al- Silicon Ingots.	NRC	MD.04

MN	Elk River	ELK River Reactor (former)	license not found (DOE)	None	2/1/68	DOE	58 MW BWR Reactor, owned by AEC/DOE, not regulated by NRC, decontaminated in February 1968. (See NUREG 1350 Vol 12., and NUREG/CR-2985)	NRC	MN.01
MI	St Louis	Michigan [Velsicol] Chemical Corp (former)	Retired	SMB-00833 STC-00076 STC-00833	4/21/71 2/28/62 11/08/66	NRC	Part 40 License	NRC	MI.03
MI	Midland	DOW Chemical Co.	Active	21-00265-06 STD-527	9/30/07 11/11/11	NRC		NRC	MI.04
MI	Flint	AC Spark Plug	Terminated	21004801-01 C-03801 C-04490	1963 1958 1961	NRC	Part 30 and 40 licenses	NRC	MI.07
MI	Ann Arbor	University of Michigan	Active	21-00215-04 -05 -06 SNM-179 SNM-1377 SNM-1529 SNM-1835	Renewal Renewal 6/30/05 11/30/03 3/31/04 7/31/03 12/31/04	NRC		NRC	MI.08
MI	Battle Creek	Oliver (former)	Terminated	C-03725	1958	NRC	Part 40 license	NRC	MI.11
MI	Detroit	Carboloy (General Electric Company) 11177 East Eight Mile Road, Warren, Michigan	Terminated	SNM-00059	3/19/1958	NRC	G.E. was the original licensee, issued on November 20, 1956. Up to 18,000 lbs of uranium dioxide (4% enriched) are authorized in the license. The UO2 was purchased as pellets from Mallinckrodt Chemical Company for hot pressing into different fuel element shapes, which were then shipped as fuel elements to the G.E. Atomic Power Equipment Department in San Jose, CA for research and use in a BWR program in Vallejos, CA. Material and equipment shipped to G.E. San Jose CA prior to license termination, and confirmed by a June 1982 NRC inspection. A later NRC inspection was conducted of the site on 2/3/1994, which found one area with residual radiation which was subsequently remediated and cleared	NRC	MI.12

MI	Wyoming Park (Grand Rapids)	Extruded Metals Co (former)	License not found (DOE)			DOE		NRC	MI.16
MO	St. Louis	St. Louis University	Active	24-00196-07	6/30/02	NRC		NRC	MO.0-02
MO	Hematite	United Nuclear Corp -Mallinckdrodt Chemical Works, Chem Div	Terminated	24-12988-01	1973	NRC	Part 30 license	NRC	MO.0-03
MO	St. Louis	Washington University	Active/ Terminated	24-00167-11 24-00063-04 SNM-00091 SUD-00501	Active 1/31/66 3/31/78 12/31/77	NRC	Parts 30, 40 and 70 Licenses	NRC	MO-07
MO	St. Louis	Petrolite Corporation 63119	Terminated	24-10452-01	8/13/73	NRC	Part 30 license	NRC	MO-08
MT	Bozeman	Montana State College	Active/Retired	25-00326-06 25-00326-07	Renewal pending 1/31/75	NRC	Part 30 License	NRC	MT.01
NC	Raleigh	North Carolina State University	Retired	C-04716 SMB-0034 CSA-03628	4/30/60 5/31/61 6/30/61	State	Part 40 License	NRC	NC.01
NE	Hallam	Hallam Nuclear Power Facility (HPNF)	None	None	1971	DOE	DOE facility- nuclear reactor built and operated as a demonstration project by the AEC between 1962 and 1964. Decommissioning and dismantlement activities at the facility concluded in 1969, and the AEC retired the facility in 1971. Currently under controlled access and long-term monitoring due to buried contamination.	NRC	NE.01
NJ	Phillipsburg	J.T. Baker Chemical Co.	Retired	29-11418-03 S-05290	4/30/97	NRC	Part 40 License	NRC	NJ.0-02

NJ	West Orange	Vitro (former)	Terminated	C-29-01207-01 C-29-01207-02 C-04974 SMB-00028 SNM-00506 SUB-00028	1958 1971 1961 1970 1967	NRC	Plant was sold and material disposed. Part 40 and 70 licenses. Region 1 inspection found insignificant contamination, site terminated, NRC actions complete.	NRC/EPA	NJ-02
NJ	Bloomfield	Westinghouse Electric -North American Philips Lighting	Terminated, but ORNL status still pending	29-03822-01, - 02, -03 R-00126 SMB-00353	5/31/73 12/17/71 2/23/83 5/1/55 2/18/83	NRC	Completed remediation but NRC has not completed its confirmatory survey. Decommissioning ongoing.	NRC	NJ-03
NJ	Orange	U.S. Radium Corp	License Not Found	NA	NA	EPA	EPA CERCLA (Superfund) site	NRC/EPA	NJ.09
NJ	Newark	Baker and Co, Baker and Williams (former) -Englehard Industries	Terminated	29-08864-02 C-03387	10/31/65 7/31/62	NRC	DU, 29,500 lb source mat'l, 1.101 lb Nat U. Used for rolling, drawing and fabricating uranium experiments, preparing sample and experimental clad fuel elements and developing chemical purification procedures.	NRC	NJ-13
NJ	Princeton (Junction?)	Heyden Chemical Corp. -American Cyanamid Co.	Retired	29-00209-02	4/30/58	NRC	Part 20 License	NRC	NJ.19
NM	Ambrosia Lake	Ambrosia Lake Mill Branson 33 Mine, McKinley County	Active/ Terminated	SUA-1473 P-04128	12/31/61	NRC, Jill Caverly	Title II site, currently owned by Quivira Mining Company. The mill is currently in standby and the license contains a condition to accept 11e(2) byproduct material into the tailings impoundment. Most of the impoundment has a radon cover excluding portions used for approved byproduct material disposal. The final erosion protection is slated for completion December 31, 2001.	UMTRAP & NRC	NM.0- 01
NM	Grants?	Blue Water AEC Ore Buying Station				DOE	DOE do not indicate Blue Water was an NRC licensee. NRC has no record of a license	NRC	NM.0- 02
NM	Church Rock	United Nuclear Corp	Expired Terminated Active	30-04800-01 SNM-00713 SUA-1475	5/31/74 3/19/71	State/N RC	Part 30 licence transfred to the state of New Mexico Licensee is in the process of decommissioning the site.	NRC/EPA- NPL	NM.15

NM	Grants	Grants AEC Ore Buying Station				DOE	DOE do not indicate Grantsr was an NRC licensee. NRC has no record of a license	NRC	NM.18
NV	Reno	U.S. Bureau of Mines, Reno Station (BOM, Reno)	Retired	C-03969 C-05234	6/30/60 8/31/61	State	Part 40 License	NRC	NV.06
NV	Henderson	Titanium Metals	Terminated	27-12264-01 27-12264-02	1972 1972	State	Part 30 license	NRC	NV.07
NY	New York	African Metals -AFRIMET, Agent for Union Miniere, Boris Pregel	Terminated	C-04166 C-4685	1961 1960	State	Transferred to state of New York	NRC ?	NY.0-01
NY	Rochester	Eastman Kodak Laboratory -Tennessee Eastman	Terminated	31-461	1958 to 1981	State	Part 30 License	NRC	NY.0-09
NY	Brooklyn	Polytechnic Institute of Brooklyn	Terminated	31-1020-20	1958	State	Part 30 License	NRC?	NY.0-19
NY	New York	Rockefeller Institute for Medical Research	Retired	31-6268-13 31-6268-15	1961 1959	State	Part 30 License	NRC?	NY.0-21
NY	New York	Columbia University -Pupin Hall, Havemeyer Hall, Nash Bdg, Schermerlimon Hall	Active	31-00452-05 31-01276-02		State	Part 30 License	NRC	NY.03
NY	Bayside (Queens)	Sylvania Electric; Sylvania Coming Nuclear -GTE Labs	Terminated	C-03396	1956	State	Part 40 license licensed to work with Uranium Metal	NRC	NY.07
NY	Troy	Rensselaer Polytechnic Institute	Retired	31-00072 C-03063 CSA-03624 SMB-00100 SNM-00008 SNM-00112 SNM-00784 SNM-00825 SUB-00100 SUD-00288	1962 1954 1961 1964 1956 1976 1965 1974 1964 1964	State	Parts 30, 40 and 70 licenses	NRC	NY.18

NY	Hicksville	Sylvania Corning Plant/ Sylvania Electric Products Sylcor Division, Long Island	Terminated	SNM-00082 70-00097	1374.9kg of U-235 from 1/1/61 to 6/30/65	NRC	up to 850 kg loose U-235 in enriched uranium fuel element plate fabrications for domestic and Int'l reactors. Processes included melting, shearing, punching, pressing, welding, heating, brazing, machining, power blending, sintering, milling, and chemical cleaning AEC compliance inspection report 10/15/65. Mat'l transferred to Bayside NY (5/25/58 - 11/30/67), and then to Towanda PA (12/5/65 - 1970) building decom'ed by ATCOR, Inc in Jan 1967. Mats sent to Nuclear Fuel Services, West Valley NY Liquid effluents discharged to sump pits, tested clean in '79, soil contamination to 3000 - 25,000 x background Ur levels. Discharges to sewer as well. Equipment bought by National Lead and moved offsite in late 1966. Solid wastes shipped offsite for Ur recovery. Closeout survey and inspections on Jan 25 and Feb 21, 1967. Region I inspection found contamination, site transferred to State of New York. NRC action complete.	NRC	NY.19
NY	Rochester	University of Rochester Medical Lab.	Retired	31-01997-01	1958	State		NRC	NY.20
NY	Ashford, West Valley	West Valley Demonstration Project	Not a licensed facility			DOE/ NRC Amy Snyder	NRC/DOE joint program	NRC/DOE	NY.23
NY	Ithaca	Cornell University Medical College	Retired	31-01547-03 31-01547-07 C-03819 SNM-00187 SUB-00110 SUD-00271	1961 1974 1958 1977 1964 1964	State	Part 40 and 70 Licenses	NRC	NY.28
NY	Brooklyn	Wolff-Alport and Co.	License Not Found	NA	NA	EPA/ State	Apparently an unlicensed Thorium mill, monozite, EPA/State.	NRC (?)	NY.30
NY	Akron	Carborundum Metals	Terminated	31-03318-01 C-04960	1960 1960	NRC	Part 30 and 40 Licenses. Cs-137 Density Gauge	NRC	NY.31

NY	White Plains	Nuclear Development Corp of America (former)	Retired	31-00350 C-03395 C-03494 C-3503	1958 1961 1957 1960	State	Parts 30 and 40 licenses	NRC	NY.32
NY	New York	Ledoux and Co.	license not found	N/A	N/A	State	Per 12/12/94 DOE letter, site not involved in radioactive material work. However, Ledoux does have a terminated site in Teaneck NJ, C-04583, expired 2/29/60.	NRC	NY.37
NY	Niagara Falls	Titanium Alloys manufacturing, Div of National Lead of Ohio (former)	Terminated	SMB-00211	6/62	State		NRC	NY.41
NY	New York	Radium Chemical Co. (former) - Radium Luminous Materials Corp., J. Kelly	Terminated	31-06642-01	1969	State		NRC/EPA-NPL	NY.60
OH	Columbus	Case School of Applied Science, Ohio State University	Terminated	CSA-03627 SNM-00411 SNM-00877	6/30/60 2/24/61 11/30/65	State	Part 40 and 70 licenses	NRC	OH.0-01
OH	Columbus	Ohio State University, Metallurgical Engineering Experiment Station	Terminated	C-03622	1960	State	Part 40 license	NRC	OH.0-05
OH	Cincinnati	Ohmart Corp.	Terminated	SNM-01091 SNM-01092 GL-00101	1978 1969 1974	State	Part 70 License	NRC	OH.0-06
OH	Cincinnati	University of Cincinnati	Terminated	34-00725-02 34-06903-04 C-04468	1960 1977 1959	State	Parts 30 and 40 License	NRC	OH.0-07
OH	Piqua	Piqua Nuclear Power Facility	License not found (DOE)	none	1969	DOE	DOE/AEC demonstration 45 MW reactor. Currently monitoring only, with controlled access. Contaminated Reactor vessel and internals disposed in place.	NRC	OH.0-08
OH	Cleveland	Harshaw Chemical, 2240 Prospect Ave	Terminated	34-06558-02	8/24/62	State	Plated and sealed sources for radiation studies and measurements on detectors, semiconductors and crystals (Am, Cm, Co, SR) No inspection report on file	NRC	OH.04

OH	Cleveland	Horizons, Incorp. 2905 East 79 th St	Expired SDMP Site	C-3496	2/28/59 1/16/74 6/30/80	State/ NRC/ DOE	SDMP site transferred to the state 8/99. Undergoing Cleanup by DOE- Savannah River	NRC/ (DOE)	OH.05
OH	Cincinnati	Cincinnati Milling Machine, 4701 Marburg Ave	Terminated	34-00153-01, - 02	3/31/58 2/28/1973	State	Irradiated cutting tool tips to study wear. Superseded by 34-00153-02. Inspection report dtd 12/31/57 indicates tool tips sent to ORNL for disposal. Metal chips buried on company property, used cutting fluid disposed to sewer.	NRC	OH.25
OH	Cincinnati	General Electric Co.	Retired	34-00499 SMB-01153	1958-82 1977	State	Parts 30 and 40 licenses	NRC	OH.31
OH	Cleveland	Clevite 540 East 105th	Terminated	SNM-00183	8/31/62	State (OGC, Susan Fodder)	Part 70 license, waste disposed of by Nuc. Eng. Corp, but not materials. 55.8 kgms U-235.	NRC	OH.35
OH	Cleveland	Tocco Induction Heating Division of the Ohio Crankshaft, 3800 Harvard Ave	Terminated	SUB-00896	1/27/69	State	Part 40 license	NRC	OH.42
OH	Youngstown	Ajax-Magnethermic Corp (former)	Terminated	C-04874 SUB-00718	4/63 11/69	State	Part 40 license	NRC	OH.43
OH	Dayton	Duriron Co.	Retired	34-06398-02	3/31/93	State	Part 30 license	NRC	OH.49
OR	Albany	Oregon Metallurgical Corp (former)	Terminated	R-00191	11/57	State		NRC	OR.0- 02
OR	Albany	Wah Chang (former)	Terminated	C-4589 SNM-00535 STB-00595	1958 1965 1980	State	Parts 40 and 70 licenses	NRC	OR.0- 03
PA	Swathmore	Bartol Research Foundation	Terminated	37-07690	1977	NRC	Part 30 license	NRC?	PA.0- 02
PA	Philadelphia	University of Pennsylvania	Terminated	37-00118	1958-81	NRC	Part 30 License	NRC	PA.0- 06

PA	Pittsburgh	Westinghouse Electric Co.	Terminated	37-00497 37-09442 C-03412 C-03586	1958-77 1958-78 1960 1958	NRC	Parts 30 and 40 Licenses	NRC	PA.0-07
PA	Pittsburgh	University of Pittsburgh	Terminated	37-04030 37-11761	1962 1973	NRC	Parts 30 and 40 Licenses	NRC	PA.0-08
PA	Philadelphia	Rohm & Haas 5000 Richmond Street	Terminated	37-01665-03 37-01665-01	9/30/78 4/30/64	NRC	Expired Part 30 licenses. 1) Disposal records dated 9/22/78 No survey or inspection report is listed for this site. Disposal info: Radiac Research Corp 2) Waste disposal by Radiological Service Co, Valley Stream, NY	NRC	PA.02
PA	East Pittsburgh	Westinghouse Atomic Power Development Plant: (various locations)	Terminated	37-00497-12 37-00497-13 C-04389	8/31/63 8/8/75 10/31/61	NRC	1) Part 30, Cert. Of Disposition transferred materials transferred to Westinghouse Electric Co, Radiation and Nuclonics Laboratory, disposal through Nuclear Engineering Corp, Kearny, NJ 2) Part 30 R& D using source material 3) Part 40, 150 lbs source matter for R&D. Clean Region I inspection.	NRC	PA.04
PA	Cheswick (Harman Township)	Westinghouse Advanced Reactors Div (W-ARD) Plutonium Fuel Laboratories and the Advanced Fuel Lab -Westinghouse Astronuclear	Terminated	SNM-01170 SNM-011295 SUB-00003 37-05809 C-4903 SMB-00355	1975 1972 1961 1972 1968 1983	NRC	Parts 30, 40 and 70 licenses	NRC	PA.10
PA	Beaver Falls	Babcock & Wilcox Co (former)	Expired Expired	37-02393-01 37-02393-02	8/31/59 9/30/63	NRC	Part 30 license	NRC	PA.18
PA	Chestnut Hill, Philadelphia	Penn Salt Manufacturing Co. Whitemarsh Research Laboratories (former)		C3448 (per DOE)		DOE	NRC has no indication of license for Uranium use at this address, but does list a facility under license STB-00014. Memorandum from DOE records indicates material was less than 0.05% Uranium. Material would be exempt today.	NRC	PA.20
PA	Homestead	Westinghouse Atomic Power Div.	Terminated	SNM-00738	1966-76	NRC	Part 70 license	NRC	PA.16

PA	New Kensington	Aluminum Co. of America (Alcoa), incl. 2 nd site -former Aluminum Research Laboratories on Freeport Rd., former New Kensington Works	Terminated	37-07653-02	1958	NRC	Part 30 License	NRC	PA.23a
PA	New Kensington	Aluminum Co. of America (Alcoa) (former name) -former Aluminum Research Laboratories, former New Kensington Works on Pine and Ninth Sts.	Terminated	37-07653-02	1958	NRC	Part 30 License	NRC	PA.23b
PA	Pittsburgh	Koppers Co. Inc	Terminated	37-03138 37-12395 C-03493	1958-83 1968-84 1958	NRC	Parts 30 and 40 Licenses	NRC	PA.25
PA	Palmerton	Palmerton Ore Buying Site (former) -Mauchchunck, New Jersey Zinc Storage Site, Horsehead Resource Development Co.	license not found (EPA)			EPA-NPL	EPA-NPL site	NRC/EPA-NPL	PA.33

PA	Quehanna	Curtis-Wright Corp. (former) -Quehanna Wilderness Preserve Building 7	Terminated	37-02416-02 C-03699 SMB-00090 SNM-00302 SNM-00156 SNM-00242	3/31/65 2/28/61 3/31/65 7/31/59 12/31/65 4/3/62	NRC	-Development, manufacture, and dist'n of sealed sources; and testing and calibration study of irradiated fuel elements. Possible burial/dumping, per July 1957 license supplement. Loose Co-60 (200 Ci), Cs-137 (100,500 Ci), Kr-85, Pm-147 (3 Ci), Sr-90 (5 Ci), Sb-124, Tm-170, et al and sealed Po-210, Ir-192, Co-60, Sr-90. Transferred to Penn St. Univ. 37-00185-04 -150 lbs source mat'l and 16,000 lbs of U metal -Mat'l transferred to Nuclear Fuel Services, in Erwin TN to SMN-306. - 454 g loose U-235, to make BeO-UO2 ceramic pellets. -Research and manufacture of fuel elements and fission detectors. PuBe pellets,, Loose U-235 (134 lbs, up to 10% enriched), U-233. All mat'l transferred to various licensees, SNM-124, SNM-398 - No mat'l under this license #.	NRC	PA.37
PA	Apollo	Nuclear Materials and Equipment Corp (former) -Numec, Atlantic Richfield, Babcock & Wilcox 33 miles NE fo Pittsburgh Pa, on the Kiskiminetas River.	Terminated	37-04456-03, -09 37-07031-01 37-12307-02 37-08467-03 SNM-01088 SMB-00502 SUC-01023 SNM-00145 C-04834 SNM-00414	4/26/71 2/17/72 4/26/71 2/11/72 3/27/80 5/11/73 9/30/65 10/31/63	NRC	- -Mat'l transferred to ARCO in Clearfield, PA Lic #37-12307-02. - - -Mat'l transferred to ARCO, 37-12307-02 - -11/61 letter indicates solid waste burial at Adv. Maters. Facility, license transferred to Babcock & Wilcox in late '74. Airborne, liquid waste releases, and burial concerns	NRC	PA.41
PA	Parks Township	Babcox & Wilcox Co. -Numec, Atlantic Richfield	Active Decomm'ing	SNM-00414		NRC		NRC	PA.45
RI	Providence	Brown University Metcalf Research Lab.	Terminated	38-00169-02 though -32 38-09860-01	1958- 1981 5/13/71	NRC		NRC	RI.01
RI	Cranston	C.I. Hayes, Incorporated 800 Wellington Ave.	Terminated	SUB-00738	9/30/69	State	Part 40 license, Cert. Of Disposition on file 9/14/1966. Uranium used in susceptibility tests, material returned to National Lead Company for disposal	NRC	RI.02

SD	Edgemont	Edgemont Mill	Terminated	SUA-816		NRC		NRC	SD.01
TN	Chattanooga	Vitro Corp of America (former) -Heavy Minerals Co. Vitro Chemical Co	Expired	SMA-00227	12/31/65	State	10,000 lbs source mat'l licensed for Milling, rolling, and extruding. Transferred to State.	NRC/State	TN.04
TN	Erwin	W.R. Grace (Davidson Chemical Division)	Expired, Superseded by new license	R-00202 40-00946	6/30/61	State	No disposition info available, No survey or inspection report listed for this license. New license SMB-306. Also possessed 42 export licenses.	NRC	TN.05
TN	Knoxville	Knoxville Iron Co (former)	Terminated	SUB-00534 SUB-00824		NRC		NRC	TN.07
TX	Kennedy	Kennedy				DOE	DOE do not indicate Kennedy was an NRC licensee. NRC has no record of a license	NRC?	TX.06
TX	Three Rivers	Three Rivers				DOE	DOE do not indicate Three Rivers was an NRC licensee. NRC has no record of a license	NRC?	TX.07
UT	Marysvale	Marysvale AEC Ore Buying Station -Uranium Ore Stockpile site	License not found (DOE)			DOE		NRC	UT.05
UT	Salt Lake City	U.S. Bureau of Mines (former)	37-01712-06 37-01712-07 05-06468-04			NRC	The U.S. Bureau of Mines could operate at any location in the U.S. under these licenses. License authorization included only sealed sources. These licenses were not for SNM	NRC	UT.01

UT	Salt Lake City	University of Utah Medical Research Center	SNM-00167 43-09285-01 43-09285-09 43-09285-10 43-09285-11 43-09285-02 43-09285-03 43-09285-04 43-09285-05 43-09285-06 43-09285-17 43-09285-13 43-09285-12 43-09285-14 43-09285-15 43-09285-16 43-09285-18 43-09285-19			NRC	No SNM or source material was received under these licenses.	NRC	UT.02
UT	White Canyon	White Canyon AEC Ore Buying Station (former) -Vanadium Corp of America				DOE	DOE do not indicate White Canyon was an NRC licensee. NRC has no record of a license	NRC?	UT.04
VA	Lynchburg	Babcock & Wilcox Nuclear Facility (former)	Terminated	45-00105 SMB-00714 SMB-00845 SNM-00042 SNM-00744 SNM-01005 SNM-778	7/31/92	NRC		NRC	VA.02
VA	Charlottesville	University of Virginia Physics Dept	Active	45-00034-03 -19, -25, -26 - 30	3/31/02 5/31/05	NRC		NRC	VA.03
VA	Richmond	Reynolds Metals Co. (former) -Virginia-Carolina Chemical Corp (former)	Terminated	45-02706-01 SNM-01103 SNM-01505		NRC		NRC	VA.04

VA	Alexandria	American Machine and Foundry Col (former)	Terminated	45-09361-01 -02, -03, -04, -05, -06 C-03635 C-04860 SNM-00077		NRC		NRC	VA.06
WA	Seattle	University of Washington	Terminated	C-05078 CSA-03838 SNM-00853 SUD-00327 SNM-108	4/30/94	NRC		NRC	WA.0-01
WI	La Crosse	Trane Co 2313 South 20th Street	Terminated	48-11816-02 48-11816-03	3/25/82 2/29/80	NRC	-Sealed Sources: Ir-191 transferred to Gamma Industries, Cs-137 transferred to National Inspection & Consultant, 37-18348-01 -Sealed source only. Mat'l transferred to Vitrobo College, 48-08479-01 per 10/7/76 letter	NRC	WI.0-02
WI	Beloit	Besley-Wells (former)	License not found (DOE)			DOE		NRC	WI.03
WV	Parkersburg	The Carborundum Co (former) -AMAX Specialty Metals Inc. 26101	Terminated	C-04922 STB-00440	11/30/60 4/27/71	NRC	-Storage only of ore (900 tons) containing 8% thorium (144,000 lbs). -24,000 lbs of Nigerian zircon ore (6% thorium). Thorium residus from processing buried at Morehead Ky, by Nuclear Engineering Co	NRC	WV.02
WY	Crooks Gap	Green Mountain Uranium Corporation P.O. Box 921, Douglas, AZ	Expired	P-04219	3/31/61	NRC	Crooks Gap Mining District, Fremont County, WY. Mining claims: Crooks Gap Mining District, Fremont Co. WY	NRC	WY.0-02
WY	Sweet Water	Lost Creek	???	Not found		???	No additional info avail	NRC?	WY.01