

DECOMMISSIONING AND RECLAMATION PLAN

BLANDING ORE BUYING STATION

Decommissioning of the Blanding Ore Buying Station site will be performed to a level that will permit its unrestricted use.

The physical equipment used at the Ore Buying Station will be surveyed, decontaminated, and transferred in accordance with 10 CFR 40.51 for use or buried in a licensed disposal facility.

Concrete and asphalt used for roads, foundations, and ore pads will be cleaned to levels suitable for possible use, after crushing, as aggregate in other concrete structures and removed or buried onsite with soil placed on top, or the material will be disposed of in a licensed disposal facility.

Cleanup of soils, buildings and structures will be performed in accordance with the guidelines presented in the "Final Generic Environmental Impact Statement on Uranium Milling", September, 1980, U. S. Nuclear Regulatory Commission (NUREG -0706). Contaminated material will be placed in a licensed disposal facility.

Depressions in the land created by construction of the station or resulting from removal of structures will be filled with earth materials to approximate the surrounding topography. Care will be taken to prevent inadvertent blocking of natural drainage patterns across the site. Some of the drainages in the disturbed area may be diverted into sediment traps after recontouring is completed.

The purpose of the reclamation program is to restore all lands disturbed by the Ore Buying Station to a productive condition consistent with the past and present uses of the area. The land in the vicinity of the Ore Buying Station is used for agricultural crops (primarily pinto beans and alfalfa) and for pasture.

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The station site itself was a fallow field supporting weeds and other invader species prior to construction of the facility.

The reclamation program will restore the lands disturbed by the Ore Buying Station to a condition suitable for livestock. Native and adapted plant species will be used in order to produce a palatable plant cover that will require a minimum of maintenance and will impede the propagation of potentially undesirable species.

Topsoil that was stockpiled north and west of the Ore Buying Station will be spread over the disturbed area. Ripping and/or chisel plowing to increase permeability, to tie the topsoil to the subsoil and to break up surface compaction and hardpan will precede seedbed preparation. Seedbed preparation will consist of harrowing with a chisel plow or disc to prepare a firm seedbed. It is anticipated that commercial fertilizers will be required. Soil testing immediately prior to seeding will be performed to determine the amounts and types of soil amendments to be applied. A straw mulch or its equivalent will be used at a rate determined by site conditions prior to seeding.

Seed will be planted in mid-fall or early spring. The seed will either be drilled or broadcast. The seed mixture will include species to provide browse and cover. The seed mixture may be modified at the time of planting based on the availability of specific seeds. Substitutions of comparable seed species will be made for unavailable seed. Species and seeding rates are listed on the following page.

<u>Common Name</u>	<u>Botanical Symbol</u>	<u>lbs/acre (pls)</u>
<u>Grasses</u>		
Alkali sacaton	SPAIA	0.25
Side-oats gramma	BOCU	1.00
Bluebunch wheatgrass	AGSP	1.00
Crested wheatgrass	AGDE2	1.00
Indian ricegrass	ORHY	2.00
Western wheatgrass	AGSM	3.00
<u>Forbs</u>		
Alfalfa mix (Nomad, Travois, Rambler)	MEDIC	3.00
<u>Shrubs</u>		
Bitterbrush, Antelope	PUTR	0.25
Cliffrose, Stansbury	COMES	0.25
Four-wing saltbush	ATCA	0.50

Agricultural lands in the vicinity of the Ore Buying Station are seldom irrigated, and it is not anticipated that irrigation or water harvesting will be needed to effect successful revegetation. However, if either irrigation or the use of a water harvesting system is deemed necessary, then one or both will be provided during the initial growing seasons to aid in the establishment of vegetative cover.

The fence surrounding the Ore Buying Station will be left for at least two complete growing seasons to protect the newly seeded area from livestock and other grazing animals.

DECONTAMINATION/RECLAMATION

COST BREAKDOWN SUMMARY

A. Decontamination of the facility		
1. High pressure water wash and/or sand blast cleaning	500/hrs x \$22.50	\$ 11,250.00
2. Materials & Equipment		\$ 10,000.00
B. Material Removal and Reclamation		
1. Removal of Contaminated Material		
Concrete 1,440 tons @ \$15/Ton		\$ 21,600.00
Earth 9,460 tons x \$1.50		\$ 14,187.00
2. Transportation of Contaminated Materials		
Concrete \$1.00/Ton		\$ 1,440.00
Earth \$.70/Ton		\$ 6,621.00
3. Recontouring & Topsoiling @ \$1,350/Acre (12 acres)		\$ 16,200.00
4. Seed Bed Preparation & Seeding @ \$450/Acre (12 acres)		\$ 5,400.00
5. Irrigation & Dust Control @ \$450/Acre (12 acres)		\$ 5,400.00
6. Remove Trash & Debris, Remove Fence & Rebuild		\$ 5,000.00
7. Labor, Including Lodging, Food & Fringe Benefits	1200 Hrs @ \$22.50/Hr.	\$ 27,000.00
C. Post Reclamation Radiological Monitoring		
1. Radon Flux Measurements		\$ 1,500.00
2. Thermoluminescent Dosimeters (TLD's) for Radium decay product concentrations in soil		\$ 500.00
3. Soil Samples		\$ 3,000.00
4. Labor		\$ 10,000.00
Total Decontamination, Reclamation & Monitoring		\$ <u>139,098.00</u>
Contingency 15%		\$ 20,865.00
		\$ <u>159,963.00</u>
Contractor Fee 15%		\$ 23,994.00
		\$ <u>183,957.00</u>
Rounded To:		\$ <u>184,000.00</u>

DECONTAMINATION/RECLAMATION COST BREAKDOWN

A. Decontamination of the Facility

- | | |
|----------------------------------------------------------------------------------|-------------|
| 1. High pressure water wash and sand blast cleaning
500 hours @ \$22.50/hr. = | \$11,250.00 |
| 2. Materials and equipment | \$10,000.00 |

B. Material Removal and Reclamation

1. Removal of Contaminated Material

a. Concrete

- | | | |
|------------------------------------------------------|---|-----------------------------------|
| 1. Ore receiving pads 150' X 100' X 2/3'
8" Thick | = | 10,000 ft ³ |
| 2. Ore pad Retaining walls | | |
| a. South wall 150' X 5' X 2/3' | = | 500 ft ³ |
| b. Other 5 walls 5(50' X 5' X 2/3') | = | 833 ft ³ |
| 3. Loader Ramp 4' X 50' X 25' | = | 5,000 ft ³ |
| 4. Asphalt & Road Material
15' X 575' X 1/3' | = | <u>2,875 ft³</u> |
| Total | = | 19,208 ft ³ |
| Total Tons @ 150 lb/ft ³ | = | <u>19,208 X 150 tons</u>
2,000 |
| Total Tons | = | 1,440 Tons |
| Concrete removal at \$15.00/Ton | = | \$21,600.00 |

b. Earth

- | | | |
|-----------------------------------------------------------------------|---|-------------------------|
| 1. Ore Storage Pads $\frac{350' \times 420' \times 1'}{27}$ | = | 5444.4 yd ³ |
| 2. Runoff Area $\frac{120' \times 100' \times 1'}{27}$ | = | 444.4 yd ³ |
| 3. Belt Conveyor Spill Area
$\frac{225' \times 50' \times 1'}{27}$ | = | 416.6 yd ³ |
| Total | = | 6,305.5 yd ³ |
| Total Tonnage @ 1.5 Ton/yd ³ | = | 9,458 Tons |
| Earth Removal at \$1.50/Ton | = | \$14,187.00 |

2. Transportation of Contaminated Materials		
a. Concrete @ \$1.00/Ton for 1,440 Tons	=	\$ 1,440.00
b. Earth @ \$0.70/Ton for 9,458 Tons	=	\$ 6,621.00
3. Recontouring and Topsoiling @ \$1,350/acre for 12 acres	=	\$ 16,200.00
4. Seed Bed Preparation & Seeding @ \$450.00/acre for 12 acres	=	\$ 5,400.00
5. Irrigation and Dust Control @ \$450/acre for 12 acres	=	\$ 5,400.00
6. Remove Trash & Debris, Remove Fence and Rebuild	=	\$ 5,000.00
7. Labor, Including Lodging, Food and Fringe Benefits 1200 Hours @ \$22.50/Hour	=	\$ 27,000.00
C. <u>Post Reclamation Radiological Monitoring</u>		
1. Radon Flux Measurements		\$ 1,500.00
2. Thermoluminescent Dosimeters (TLD's) for Radium-226 decay product concentrations in soil		\$ 500.00
3. Soil Samples		\$ 3,000.00
4. Labor		\$ 10,000.00
Total Decontamination, Reclamation & Monitoring	=	\$139,098.00
Contingency 15%		20,865.00
		<u>\$159,963.00</u>
Contractor Fee 15%		<u>\$ 23,994.00</u>
Grand Total:		<u>\$183,957.00</u>
Rounded To:		<u>\$184,000.00</u>

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Docket No. 40-8674

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William O. Miller, License Fee Management Branch, ADM

MATERIALS LICENSE AMENDMENT CLASSIFICATION

Applicant: P. A. + Co.

License No: SWA-1326 Fee Category: _____

Application Dated: 6/25/81 Received: 6/25

Applicant's Classification: _____

The above application for amendment has been reviewed by NMSS in accordance with §170.31 of Part 170, and is classified as follows: _____

1. Safety and Environmental Amendments to Licenses in Fee Categories 1A through 1H, 2A, 2B, 2C, and 4A
 - (a) _____ Major safety and environmental
 - (b) _____ Minor safety and environmental
 - (c) _____ Safety and environmental (Categories 1D through 1G only)
 - (d) _____ Administrative

2. Justification for reclassification: 2D^u - ore buying station - not mill or inside or heap leach

3. The application was filed (a) _____ pursuant to written NRC request and the amendment is being issued for the convenience of the Commission, or (b) _____ Other (State reason): _____

Signature _____

Uranium Recovery Licensing Branch

Date 6/26