General Features of the Henderson DUSEL and its Site
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Mine Site with Red and Harrison Mountains
Land Position

• Total Land Ownership
  • Mine site 2,900 acres
  • Mill site 9,900 acres
  • Total Owned Acreage 12,800 acres
  • Forest Service Easements 50 acres
#2 Shaft - Man and Material Shaft

Service Cage
- 100 People
- 23 Tons on the cage
- Sling 50 tons with crosshead
- Cage - 23 ft. long X 8.5 ft Wide X 13 ft high

Double Deck Cage
- 100 People

Fiber communication
Lines down shaft

Intake air
Ventilation

• 3,700 connected fan horsepower - Main Exhaust
• 2.2 million cubic feet per minute
Xcel Energy Substation

2 - 24 MW Transformers from 115 KV to 13.8 KV
Henderson Use – 10 MW
#2 Shaft Direct Fired Gas Heat
Concrete Produced on Site

- Batch Plant on the Surface
- Slick Line in the shaft for underground delivery
- Concrete transporters and pumps underground
Mine Monitoring and Control

- Traffic Control/Ore Pass Level Monitoring
- SMUX - Plant TV
- Crusher HMI
Urad Water Treatment Plant

- Treats 1,100 gpm of water from the mine
- $9.8 mm capital investment, 1996 construction
- Two-stage Lime precipitation for Manganese, Zinc, Aluminum
Available Surface Space

A – Visitor Center – 160,000 sq. ft.

B – Parking – 80,000 sq. ft.
Available Surface Space – Cont.

C – Office, Labs – 180,000 sq. ft.
Henderson Operational Schematic
Loaders

- 9-cubic yard Elphinstone R1700 LHD
Trucks

- 40-ton Elphinstone 69D
- 80-ton Tamrock Supra 80
Drills

Drill Jumbo

Ring Drill
H2000 Ore Transport System

- 54 by 84” Fuller-Traylor Gyratory Crusher
- 500 horsepower
- Crushed Ore Bin
15 Mile Long Conveyor System
Henderson Mill Site
Underground and National Science Labs Visited by Henderson Staff

- Sudan - MN
- SNOLab - Ontario
- Brookhaven - NY
- Gran Sasso - Italy
- Kamiokande - Japan