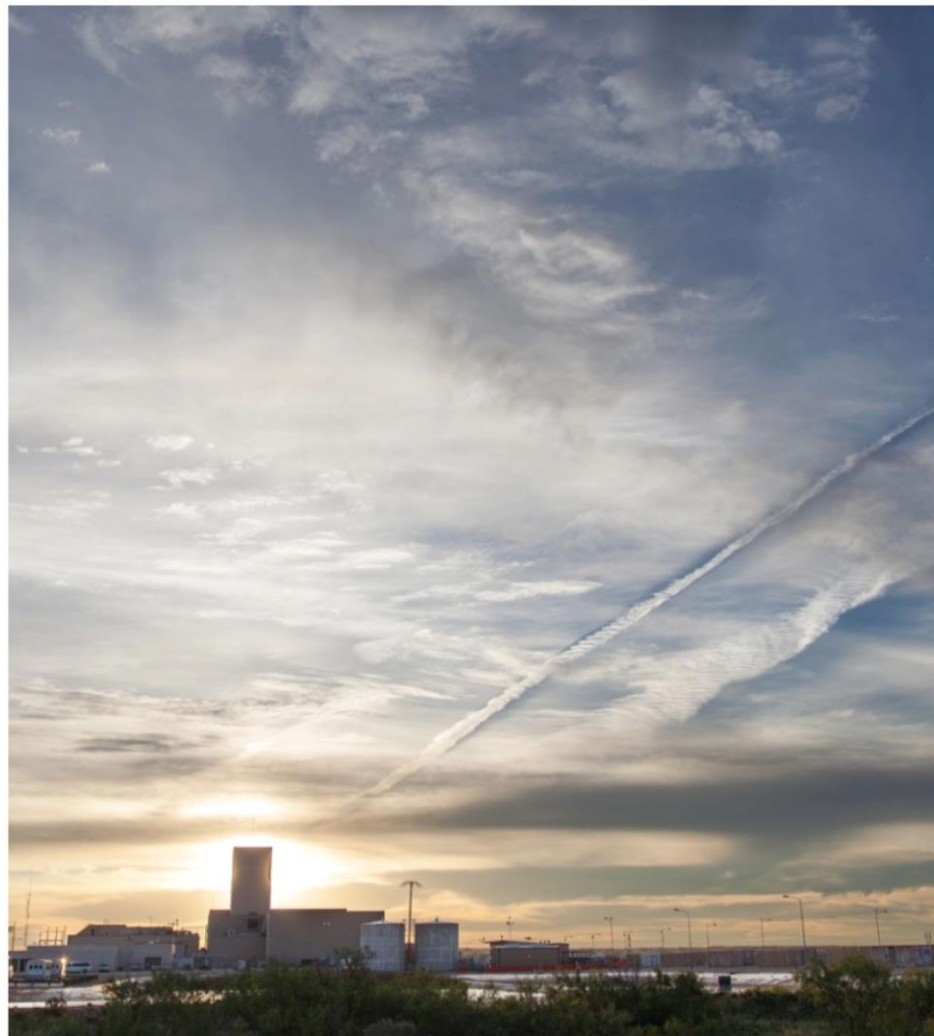


WIPP Town Hall Meeting

December 6, 2017

*Sponsored by the U.S. Department of Energy
and the City of Carlsbad, NM*

- **Welcome – Mayor Dale Janway**
- **Introduction – Moderator John Heaton**
- **WIPP Status – NWP President and Project Manager Bruce Covert**
- **CBFO Update – CBFO Manager Todd Shrader**
- **Capital Asset Projects – Federal Project Director Ron Gill**



WIPP Status

NWP President and Project Manager Bruce Covert



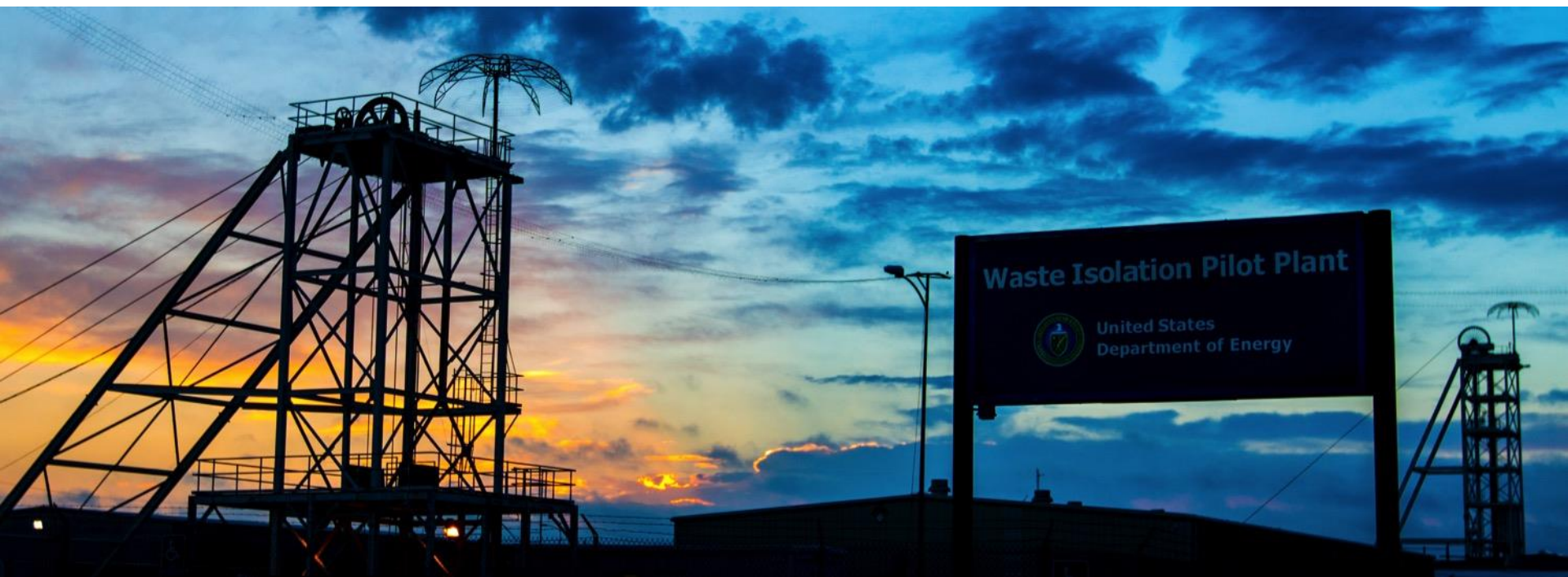
Recent Accomplishments

- Received 100th shipment
 - Since April 2017
- Received 12,000th total shipments since opening
- Averaging 5-6 shipments per week
- Resumption of LANL shipments
- NWP receives major corporate award



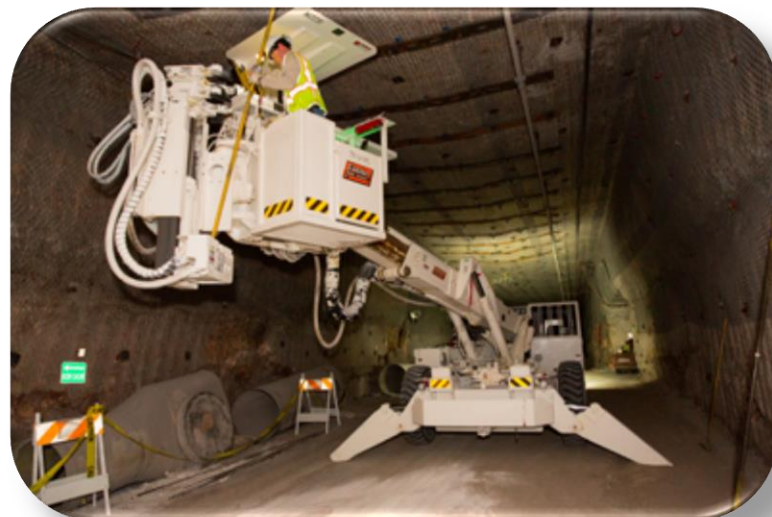
Shipments (as of 12/04/17)

- Total Shipments received (since 1999) – 12,012
- Shipments since restart – 118
- WIPP drivers have safely traveled almost 14.3 million loaded miles



Room 6, Panel 7 Update

- No extremes in the movement of the ground
- Continue to monitor the area very closely
- Rock falls are not uncommon in prohibited areas of the WIPP underground
- CBFO and NWP continue to evaluate safe work conditions
- Rock fall is not anticipated for five or six weeks
- Employee safety is highest priority



- All tests have been completed
- Received DOE approval to operate the SVS
- Air balancing in the underground complete
- Formal turnover to operations will occur this week



Resumption of Mining in Panel 8



- Resumption this month
- Two new salt haul trucks have been received and are in the underground
- Preventative maintenance activities have been completed on continuous miner
- New de-dusters are installed and tested
- All other equipment needed for mining is ready to go

Community Commitment Plan

- Community Commitment Plan
 - Describes goals for Nuclear Waste Partnership community involvement and support
 - New community liaison – Missi Currier

2018 COMMUNITY PLAN SUMMARY

Critical Area	Volunteerism	Monetary Donations
Education	800 volunteer hours	\$70,000
City of Carlsbad	100 volunteer hours	\$100,000
Economic Development	200 volunteer hours	\$200,000
Community Support	1,100 volunteer hours	\$130,000
Totals	2,200 volunteer hours	\$500,000

Figure 1.0 the 2018 Contractor Community Commitment Plan addresses community needs and builds on more than 30 years of investment in Eddy and Lea counties.

Community Commitment Plan



Speaker's Bureau



SafetyFest

Initiatives Already Begun

- Speakers Bureau
- 2017 SafetyFest
- Christmas on the Pecos Blanket Brigade
- Partnering with High School, City to refurbish recycle bins



Partnership With High School, City

- Annual Maintenance Outage
 - January 15-26, 2018
 - Ground control in areas that impact normal operations
 - Apply new epoxy coating to floor in Waste Handling Building
 - Various electrical work that requires power interruption



CBFO Manager's Update

Todd Shrader



U.S. DEPARTMENT OF
ENERGY

- Principal Deputy Assistant Secretary for Environmental Management Jim Owendoff
 - EM conducted a review of the full EM program to identify opportunities to improve effectiveness and execution across the board with a focus on timely decision-making
 - EM-HQ leadership worked with site managers in the field and solicited input from federal employees at all levels
 - Review highlighted the importance of WIPP across EM complex
 - CBFO/WIPP is working with HQ on several key opportunities
 - Most have been discussed in previous Town Hall meetings

- Key WIPP Opportunities - Decisions
- Increased Ventilation at WIPP
 - Supplemental Ventilation System – near term
 - Permanent Ventilation – out years
- Improve Surface Infrastructure
- Ramp-Up Emplacement Rates



Safety Significant Confinement Ventilation System (15-D-411) Exhaust Shaft (15-D-412)

Carlsbad Field Office

Ronald E. Gill

Federal Project Director

- Project Overview
 - Alternatives evaluated
 - SSCVS (15-D-411)
 - Exhaust Shaft (15-D-412)
- Hoisting Capability Mission Need



The diagram illustrates the proposed ventilation system for the new shaft. It shows the layout of the shaft, including the Waste Handling Building, Waste Shaft, Auxiliary Air Intake, Waste Shaft Station, Exhaust Shaft, Dust Filtration Bypass, HEPA Filtration System, Exhaust Stack, Construction area, Disposal area, North area, AIS Exhaust Plenum, AIS, SHS, New Surface Intake Fans, and New Shaft Headframe. Air flow is indicated by colored arrows: Fresh Air Intake (blue), Construction and North Exhaust (green), Disposal Intake (cyan), Waste Shaft Intake (magenta), and Disposal Exhaust (red). The system includes fans and filters to manage air quality and flow.

- Nuclear Waste Partnership (NWP) proposed a total of 24 alternatives with 2 requiring additional study through Conceptual Design
 - Alternative 1-A
 - Provide a new unfiltered exhaust shaft for mining operations and use existing exhaust shaft with additional filtration capacity for full waste handling and disposal operations
 - Alternative 1-D
 - Existing exhaust shaft with filtered ventilation sufficient for full mining and waste handling and disposal operations
- An Independent Analysis of Alternatives was contracted with Trinity Engineering Associates that developed 4 alternatives that were similar to the ones developed by NWP

Group 1 – Underground Ventilation System Alternatives

- 1-A New Exhaust Shaft for mining operations and use existing exhaust shaft with additional filtration capacity for full waste disposal operations
- 1-B New exhaust shaft for combined mining and filtered disposal exhaust
- 1-C Two new exhaust shafts – one for mining exhaust unfiltered and one for disposal exhaust filtered
- 1-D Existing exhaust shaft with filtered ventilation sufficient for full mining and waste handling operations
- 1-E New intake shaft, use existing exhaust shaft with additional filtration capacity, unfiltered exhaust through Air Intake Shaft (AIS)/SHS shafts
- 1-F New intake shaft, new exhaust shaft with additional filtration capacity. Separate waste and clean side circuits

Group 2 - Underground Ventilation System Alternatives Auxiliary Options

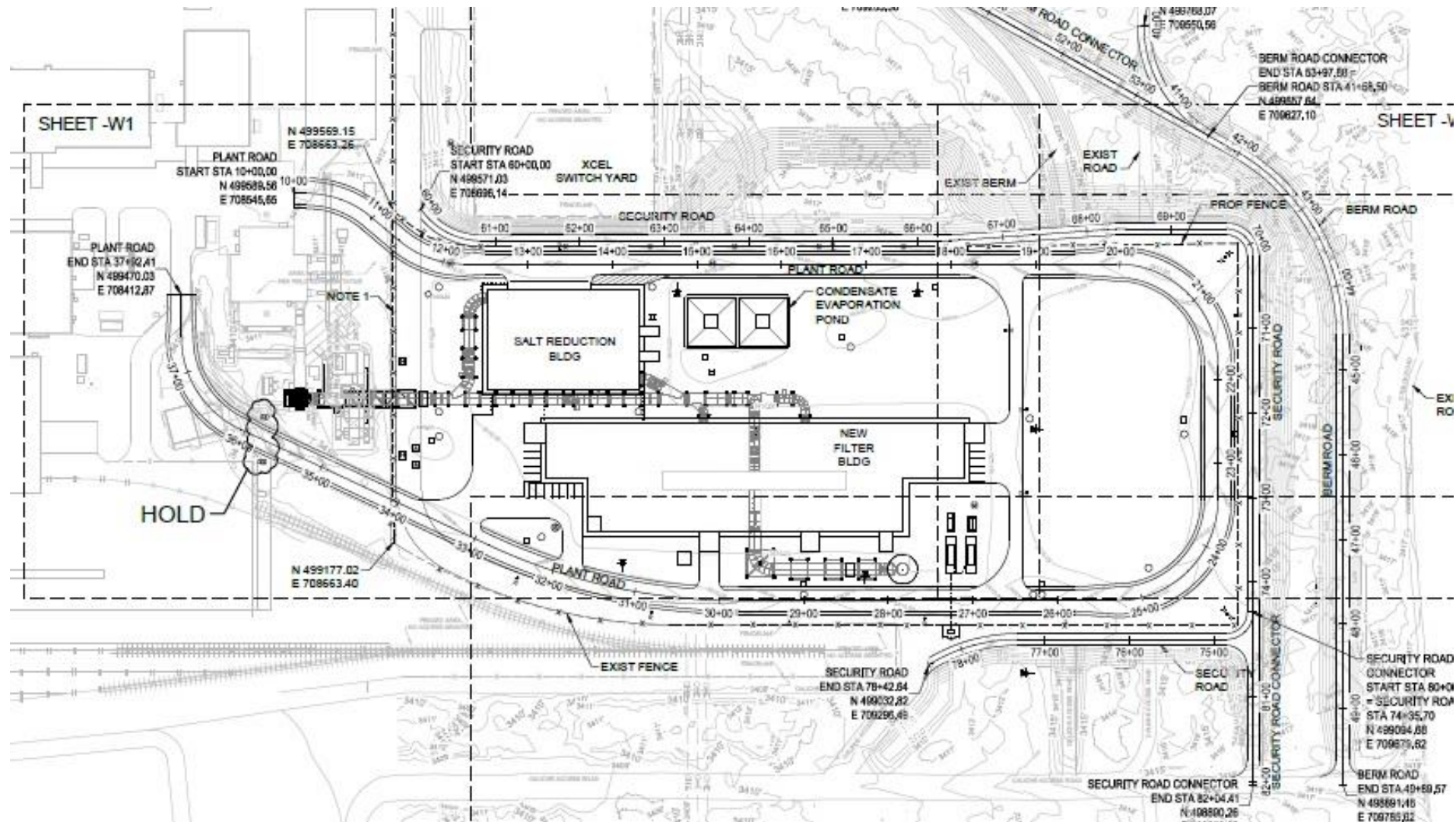
- 2-A Local exhaust filtration at the disposal panel/room – use in conjunction with alternatives 1-A through 1-F
- 2-B Use existing ventilation system as standby – use in conjunction with alternatives 1-A through 1-F
- 2-C Unfiltered exhaust with shift to filtration capacity – use in conjunction with alternatives 1-A through 1-F

Group 3 – Existing Ventilation System Alternatives (Do Nothing)

- 3-A Current filtration Mode with Interim and Supplemental ventilation systems
- 3-B Current filtration Mode with Interim and Supplemental ventilation systems – expand IVS to achieve a total filtered flow rate of 330,000 acfm
- 3-C Use existing exhaust shaft, 1-860 fan for filtered circuit or 1-700 fan for unfiltered circuit
- 3-D Decontaminate the underground and existing exhaust shaft and use 700 fans

- Completed Independent Cost Estimate
- Nearing completion of an External Independent Review (EIR)
 - Within the cost range approved at CD-1
 - Turn Over to Operations – March 2021
 - Complete D&D of Existing System and Schedule Margin – November 2022
- Completing actions from EIR
 - Crosswalk between NQA-1 1989/1990 and NQA-1 2008/2009
- Anticipated Critical Decision 2/3 January 2018
- Anticipated Request for Proposal for Construction January 2018
- Award Construction Contract March 2018
- Start Construction April/May 2018

SSCVS (15-D-411) Site Plan



SSCVS (15-D-411) Scope

7 110,000 CFM
Dedusters and Demisters
5 online
1 in standby
1 in maintenance

22 27,000 CFM
Safety Significant
HEPA filter housings
20 online
1 in standby
1 in maintenance

New Filter Building
55,553 sqft

125 ft Exhaust
Stack

2 3,000 KW
Standby
Diesel
Generators

6 1,000 HP
Fans (housings, motors,
Variable frequency drives
4 online
1 in standby
1 in maintenance

**Salt Reduction
Building**
24,966 sqft

Total Airflow – 540,000 CFM

Existing Exhaust Shaft

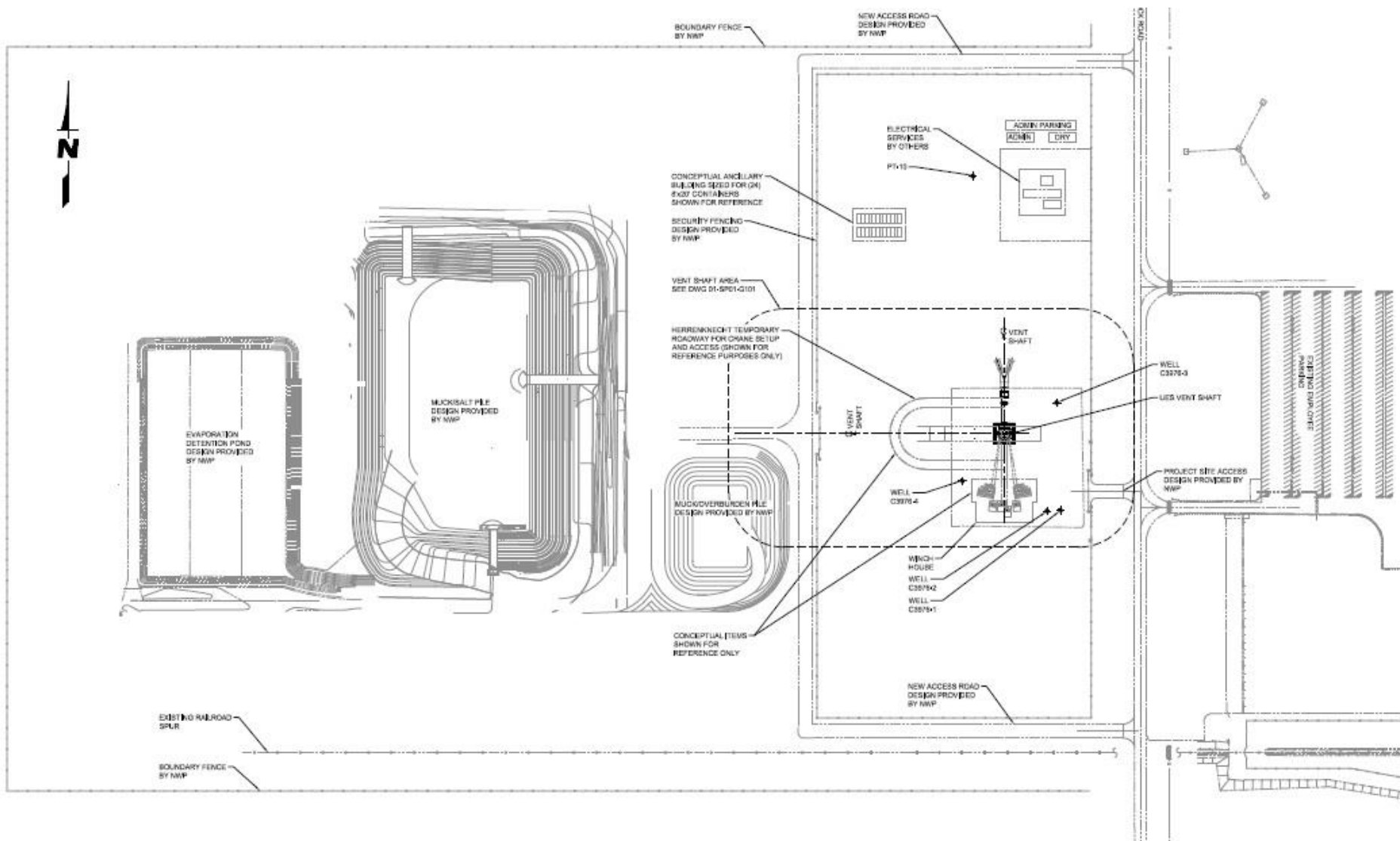
2 ISOMETRIC FRONT LEFT

Exhaust Shaft (15-D-412) Status

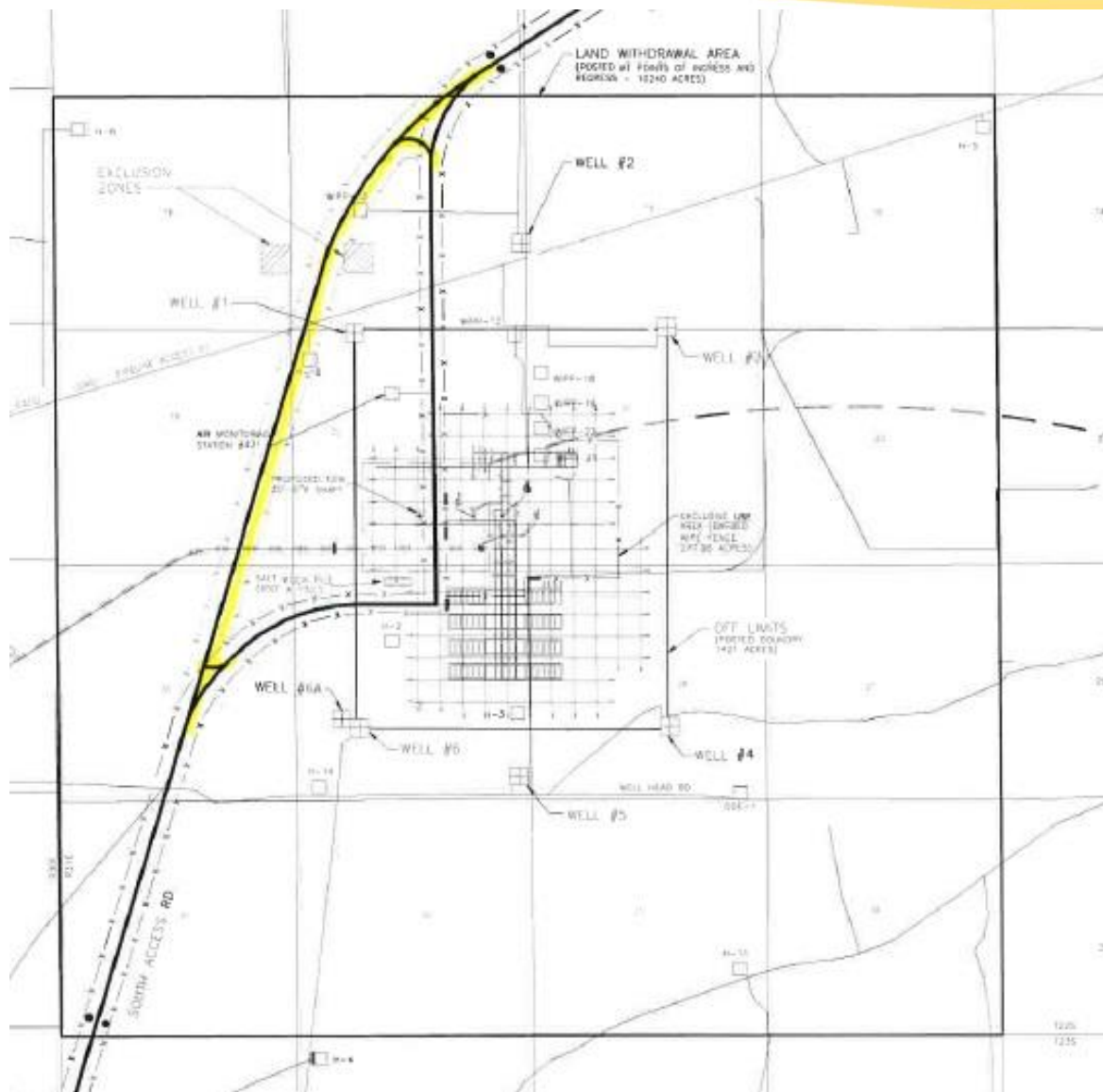
- Working to change project name to “Ventilation Shaft”
- Will be sinking the shaft using conventional mining methods
- Independent Cost Estimate undergoing factual accuracy review
 - Anticipated project completion September 2022
- External Independent Review (EIR) scheduled for February 2018
- Anticipated Critical Decision 2/3 May 2018



Shaft Site Plan



North Access Road Bypass



Hoisting Capability

- New shaft is providing a 30 foot diameter shaft to allow a hoisting capability
- Mission Need Statement and business case is being developed now for FY 2019/2020 budget cycle for design and construction funds with install starting in FY 2022 after shaft sinking
- Pre-conceptually a new material hoist and salt hoist capability installed – still evaluating potential alternatives



Questions?

