

# WIPP Update

James McCormick  
*Nuclear Waste Partnership*



# Cleaning up our nation

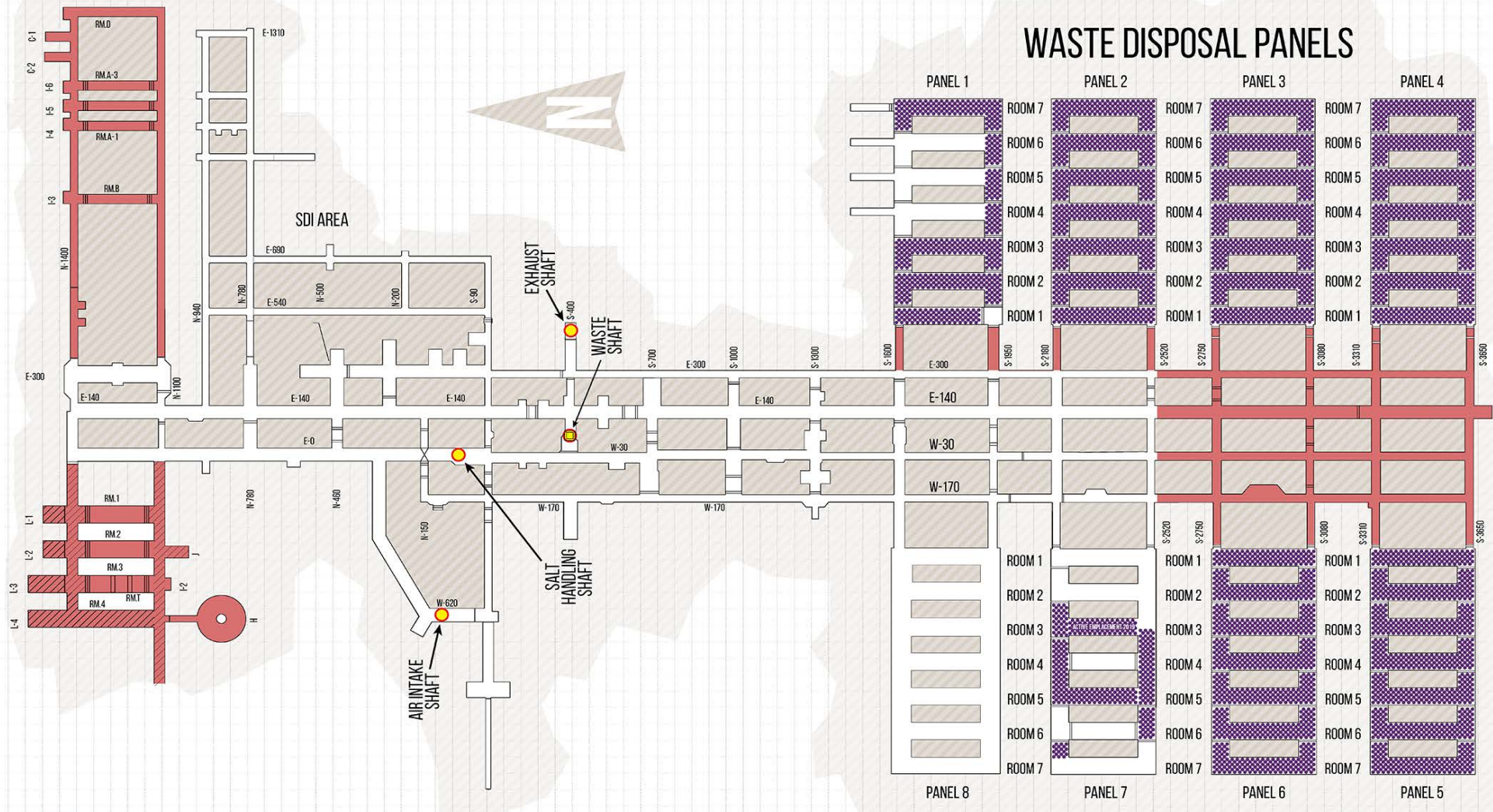
- Sites clean of all legacy TRU waste: **22**
- Shipments received in FY19: **315**
- Shipments received in FY2020 (through 02/10/2020): **72**
- Loaded miles in FY19: **404,045**
- Total CH waste containers emplaced: **180,928**
- Shielded containers emplaced: **45** (included in total RH)



# Accomplishments

- Celebrated 20 years of TRU waste operations!
- Completed rough cut of next disposal panel – Panel 8
- Received first TRUPACT-III since restart
- Panel Closures - Panels 3,4,5 and 6 sealed

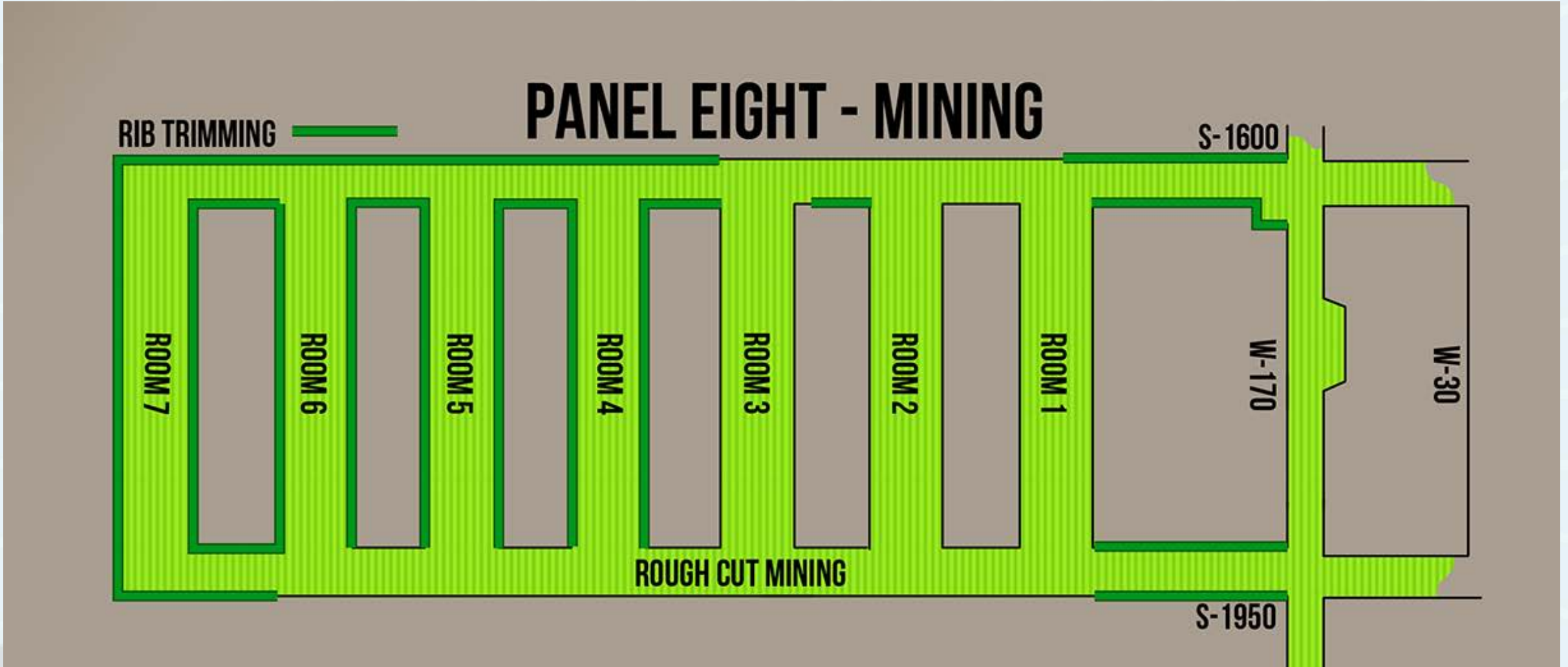




**LEGEND**  
 EMPLACED WASTE  
 HOSTS  
 CLOSED AREA

WIPP MINE MAP • FEBRUARY 2020

# Mining Update



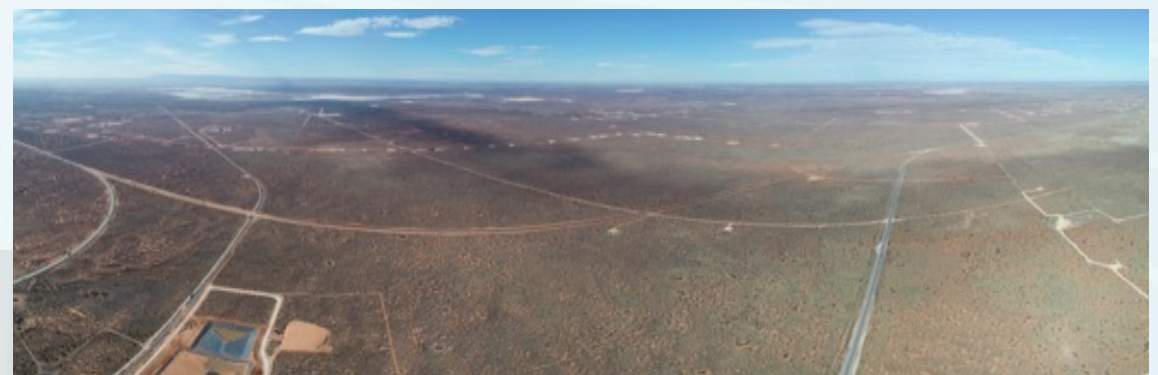
# New Mining Equipment

- 10CFR851 more restrictive air emission (5 ppm to 0.2 ppm NOx)
- Electric Underground Mining Vehicles
- Lithium Iron Phosphate Rechargeable (safest Lithium Ion Technology)
- Battery capability is sufficient for full shift operation

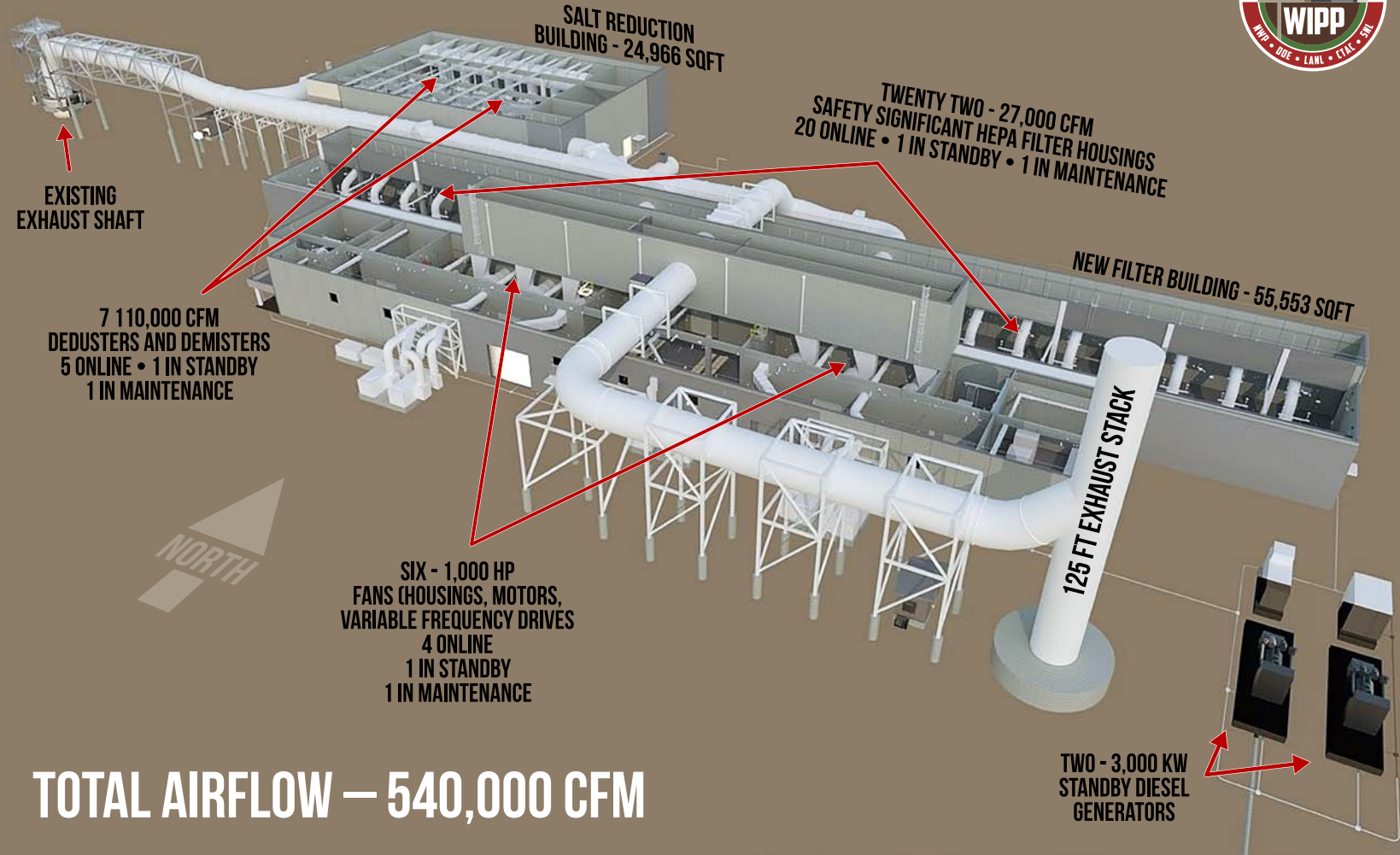


# Infrastructure Projects: By the numbers

- Total cost of infrastructure projects is more than half a billion dollars
- Largest construction project since WIPP was built in the late 1980s
- Upgrades will allow WIPP to continue safe operations
- Three major capital projects
  - Safety Significant Confinement Ventilation System (PDSA)
  - Utility Shaft Project
  - Completion of North Access Road Bypass



# SAFETY SIGNIFICANT CONFINEMENT VENTILATION SYSTEM



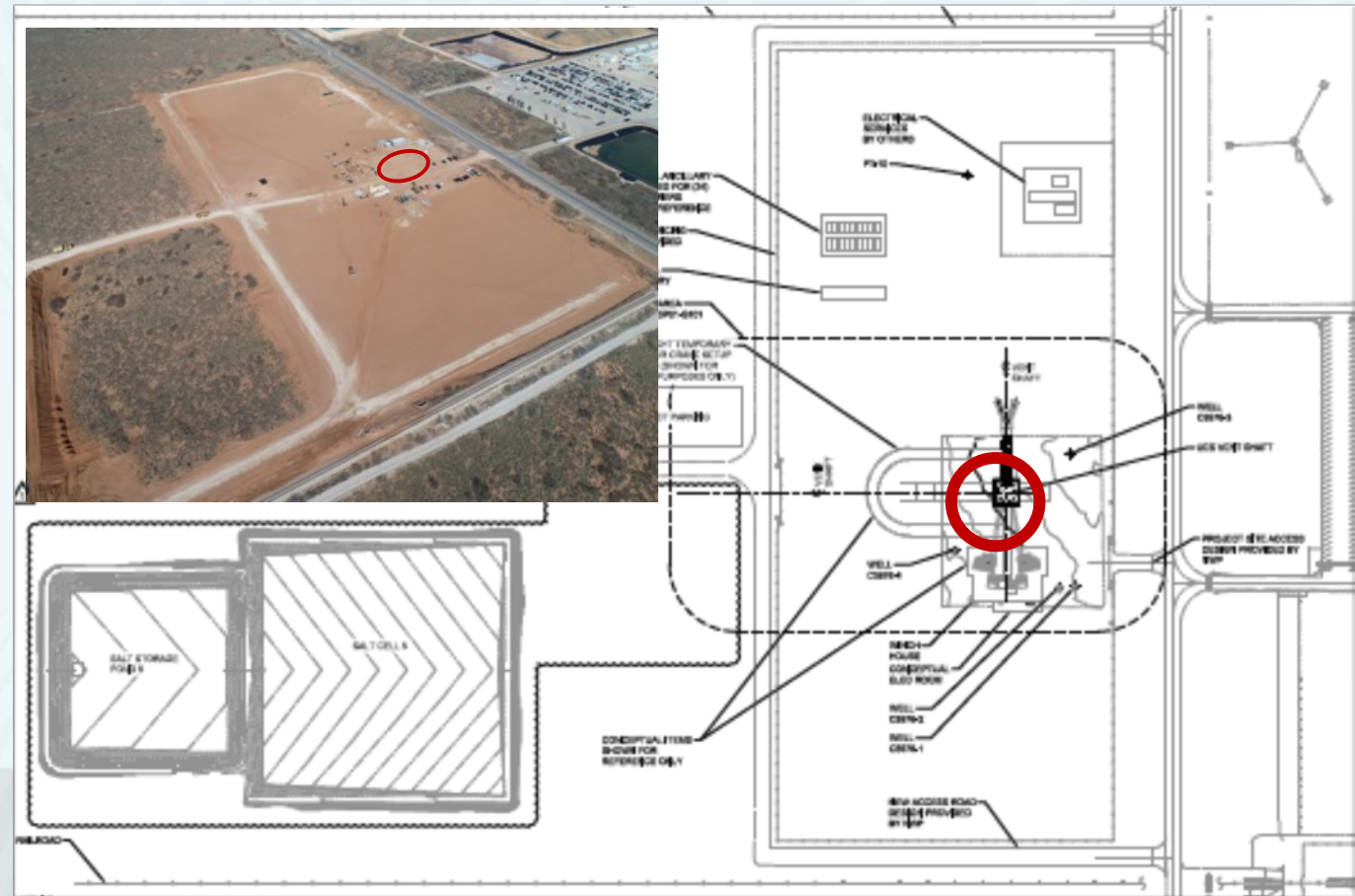


# SSCVS

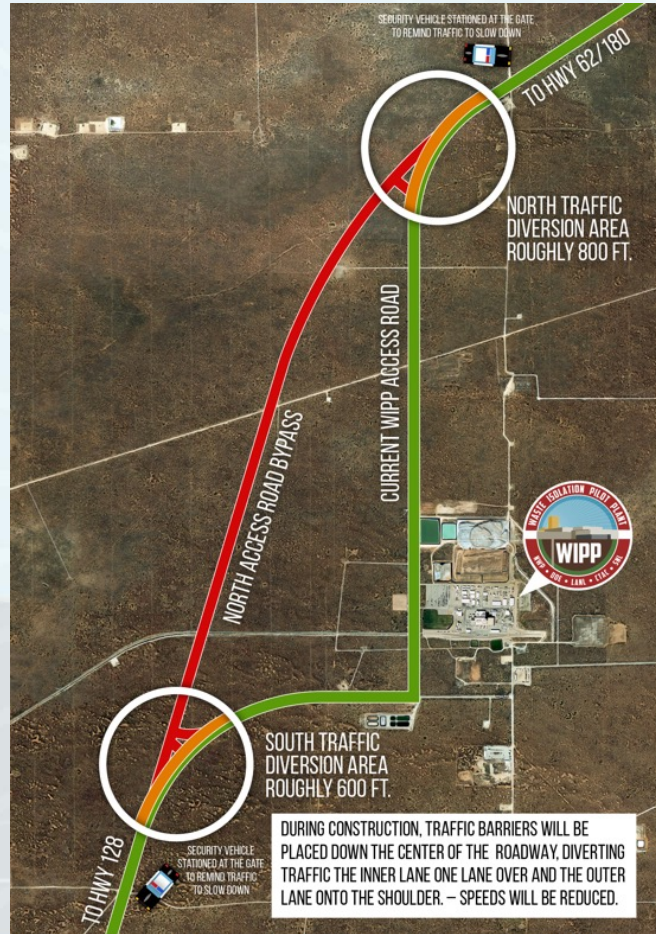


# Utility Shaft

- 30 foot diameter shaft
- 2150 feet deep
- Lined down to 800 feet
- Shaft to be sunk beginning in May 2020



# North Access Road Bypass



# Safety Basis changes

- PDSA – Safety Significant Confinement Ventilation System
- Annual Update – DSA Revision 7
- Four DSA Page Changes
  - Pg Chg 01, Receipt of POC containing Combustibles
  - Pg Chg 02, Remove Real-Time Monitoring of Panel 6
  - Pg Chg 03, Receipt of TRUPACT-III Shipping Packages
  - Pg Chg 04, Unfiltered Mining Operations
- PISA 19-01/ESS-2019-01 – RH Bay Ventilation
- PISA 19-02/ESS-2019-02 – 300 Gallon Fuel Tank Movement in WHB

# Safety Basis changes

- Two Safety Basis Supplements
  - SBS-2019-01, Testing of Unfiltered Underground Ventilation
  - SBS-2019-02, Receipt of High MAR SLB2 Waste Container
- Four Response Plans
  - RP-2019-01, Mislabeled PCB (INEL)
  - RP-2019-02, Deformed SWB (SRS)
  - RP-2019-03, Degraded Drum (INEL)
  - RP-2020-01, Punctured TDOP (INEL)

# Maintenance Outage (2/14 - 3/15)

- SSCVS Trailer Complex Electrical Tie-In
- Waste Hoist Head Rope Replacement
- Underground Electrical Substations Upgrade
- Milling/Bolting in Panel 7
- Annual Preventative Maintenance



# WIPP Looking Forward

Charles Neill

*Carlsbad Field Office*



U.S. DEPARTMENT OF  
**ENERGY**

# Looking Ahead – Investing in WIPP’s Future

- General Plant Projects
  - ✓ Underground Electrical Substation
  - ✓ Fire Loop System
  - ✓ Central Monitoring Room upgrade
  - ✓ Plant-wide Fiber Optics upgrade
  - ✓ Salt Hoist repair
- Capital Projects
- Completion of Panel 8





# Shipment Projections

- Projected Shipments through February 2021



Site	Projected Shipments to Feb 2021 (UP TO)
LANL	80
SNL	3
INL	195
ORNL	33
SRS	24
ANL	5
LLNL	10
Total	350 Estimated

# National TRU Program (NTP)

- Rebuilding NTP to implement a fully integrated team approach across the complex:
  - Through establishment of processes for communicating issues between generator sites and CBFO Office of NTP
    - New Information Process
    - Strengthening site agreements between federal and contracting entities
  - Addressing programmatic issues in constructive manner
    - Container integrity and deformation
    - Waste characterization and shipping approval
    - Information security
    - Shipping prioritization and planning

# Regulatory Activities

- Compliance Recertification Application 2019 – Currently being reviewed by EPA
- Class 3 Permit Modification Request – Excavation of New Shaft and Associated Connecting Drifts
- 10 Year Hazardous Waste Facility Permit Renewal will be submitted in March



# Questions?

