

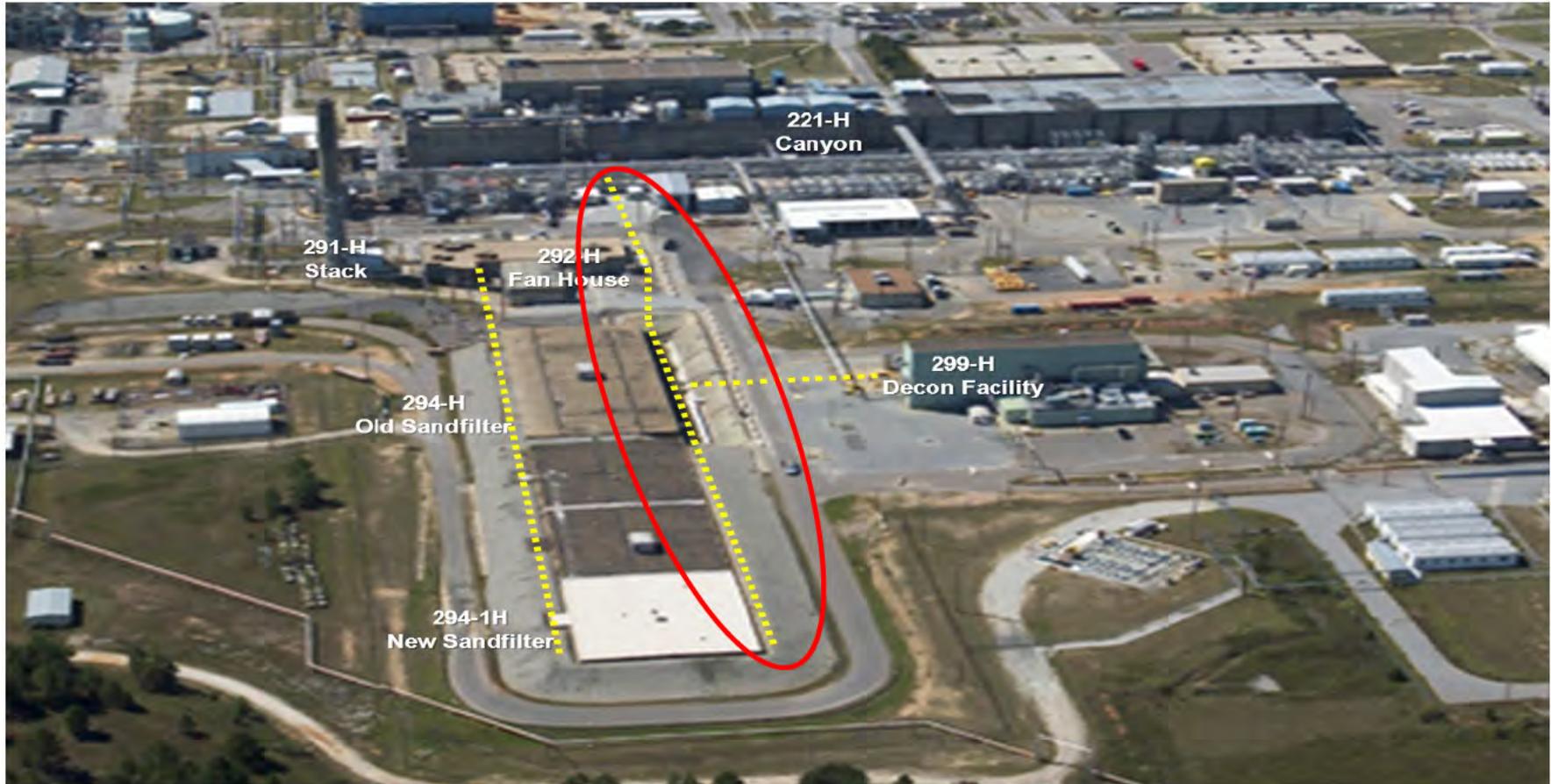
H-Canyon Exhaust Air Tunnel

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*Citizens Advisory Board
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H-Canyon Exhaust Air Tunnel



- Confines and conveys the H-Canyon process air to the Sandfilter
- Meets Natural Phenomena Hazard (NPH) Seismic Design Criteria SDC-3
- Credited to mitigate consequences during and after a design basis earthquake

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H-Canyon Exhaust Air Tunnel - Qualification

- Inspections raised questions on Existing Tunnel Qualification calculations
 - Potential Inadequacy in the Safety Analysis declared
 - H-Canyon operating under a Justification for Continued Operations (JCO)
 - Non-Linear Analysis initiated
- Non-Linear Analysis in progress
 - More complex modeling and analysis
 - Will document Tunnel qualification & demonstrate ability to credit Tunnel in Safety Basis
 - Will be used as basis for comparison of future inspections
 - Analysis forecasted completion - Summer 2019
- Non-Linear Analysis does not provide a rate of degradation
 - Exploring new technologies to aid in development of a rate
 - Proposed an Alternative Control Strategy for long term H-Canyon Operations

H-Canyon Exhaust Air Tunnel - Alternative Control Strategy

- Long term strategy for continued H-Canyon Operations
- Eliminates Safety Basis reliance on Tunnel for Seismic Events
- Similar to existing JCO Strategy
 - Prevents releases caused by Seismic Event vs mitigating release with Tunnel
 - Credits existing and some new passive preventive design features and administrative programs
 - Controls the hazard closer to the source
 - Takes advantage of reduced Material at Risk (MAR)
 - Alternative Control Strategy working in parallel with Non-Linear Analysis
- Forecast for approval Summer 2019, and implementation Fall 2019

H-Canyon Exhaust Air Tunnel – Conclusion

- Existing Safety Basis program (Structural Integrity Program) identified a potential inadequacy in H-Canyon Exhaust Tunnel
- H-Canyon Operations were suspended
- H-Canyon Operations resumed safely under a Justification for Continued Operations
 - Tunnel proven safe by calculation for Non-Seismic Events
 - Seismic Events credit passive preventive design features & administrative programs
 - No increased risk to public or onsite workers
- Multiple paths/options
 - Non-Linear Analysis
 - *Restoration of the Exhaust Air Tunnel as credited preventer for Seismic Events*
 - Alternative Control Strategy
 - *Credit seismically qualified passive preventive design features and administrative programs*
 - *Eliminates the need to credit the Exhaust Air Tunnel for H-Canyon Seismic Events*
- H-Canyon operations are and will be shown safe to continue with no impacts to workers, public or the environment.

Questions

