



Bear Creek Facility

TN-RAM Cask Challenges

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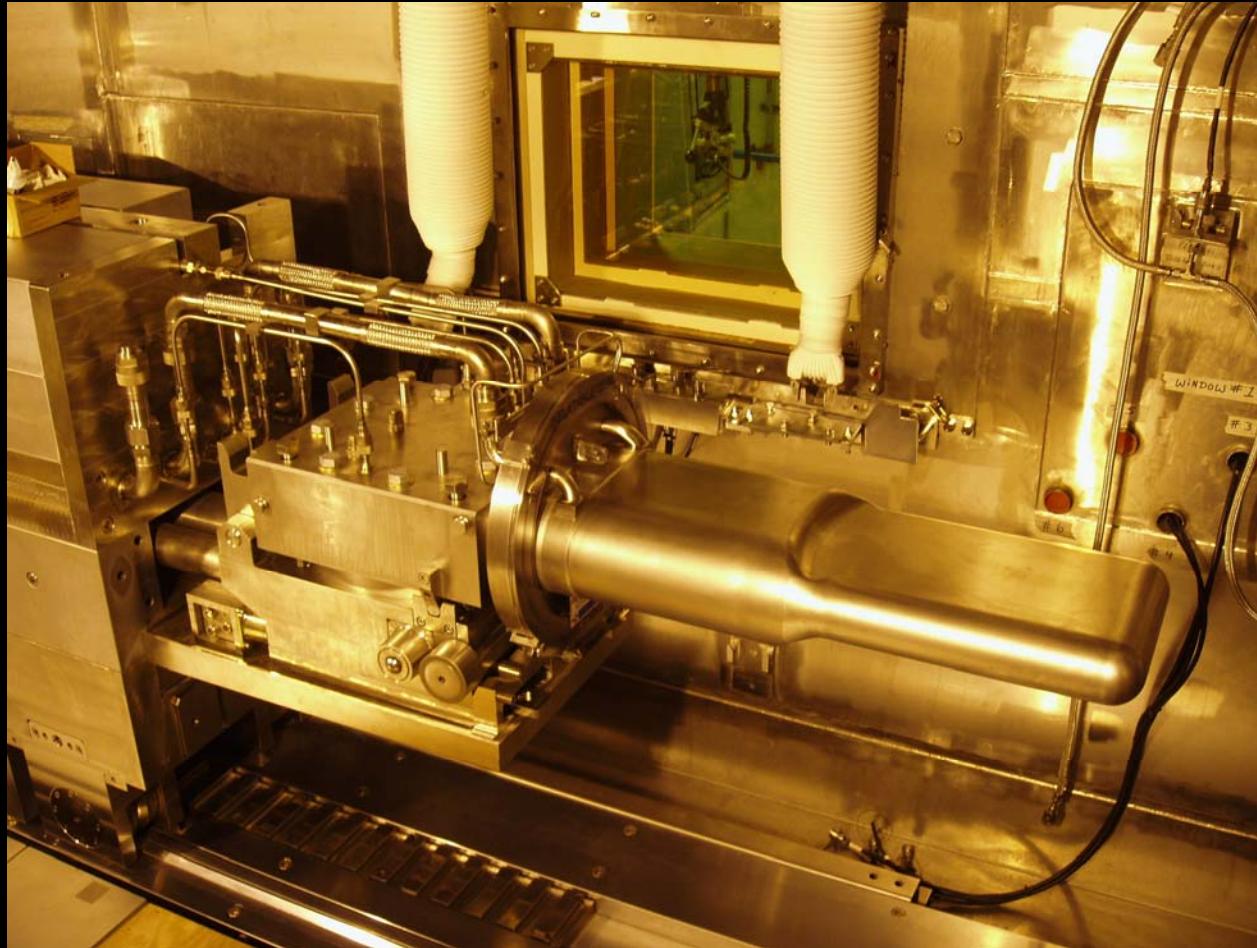
TN-RAM Cask



- Excellent Cask!
 - 6 inches lead shielding
 - Type B



- Target Vessel and Associated Waste



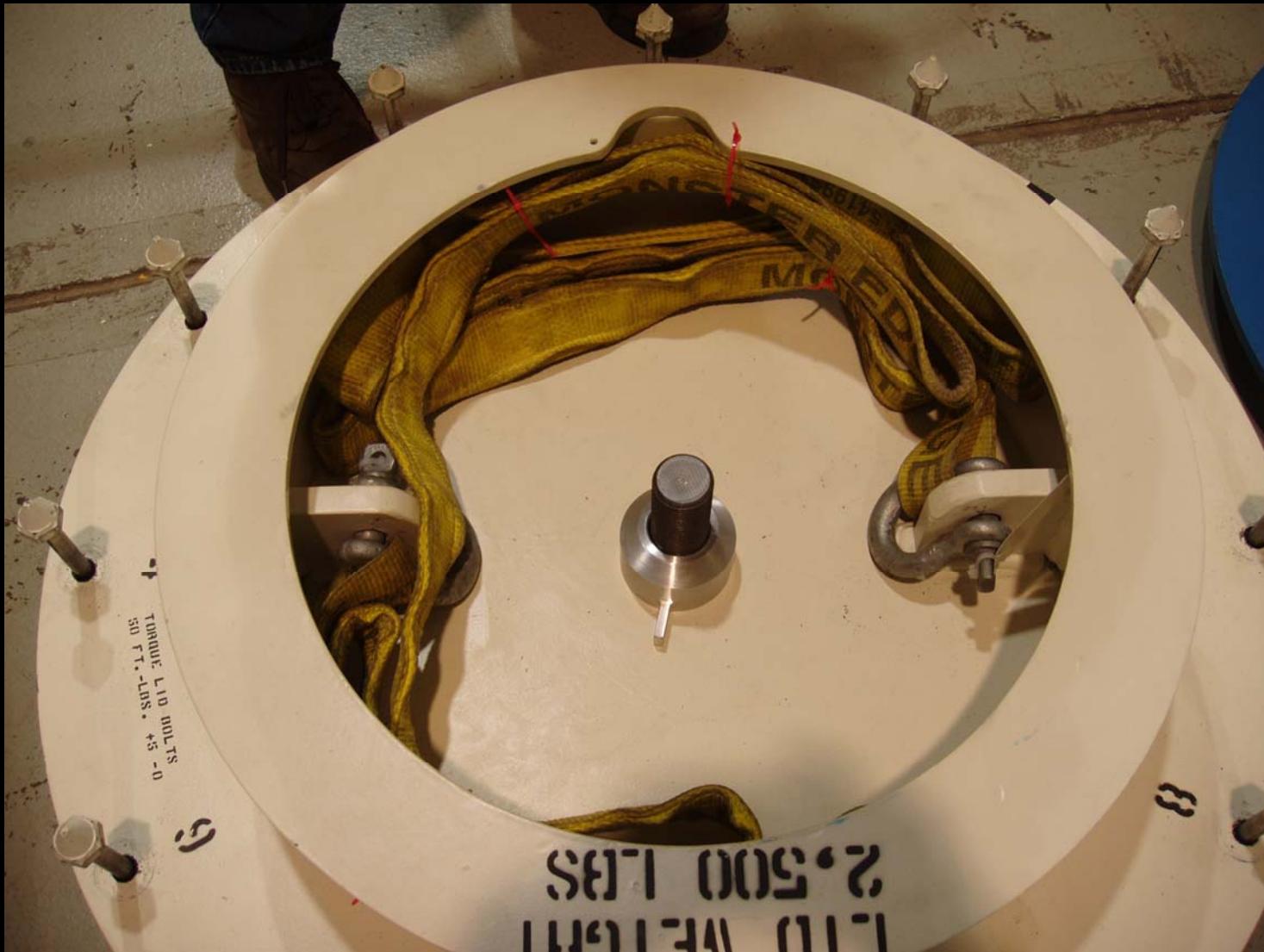
SNS Control Room Monitors



SNS Liner



SNS liner lid



SNS Handling



SNS Loading Bay



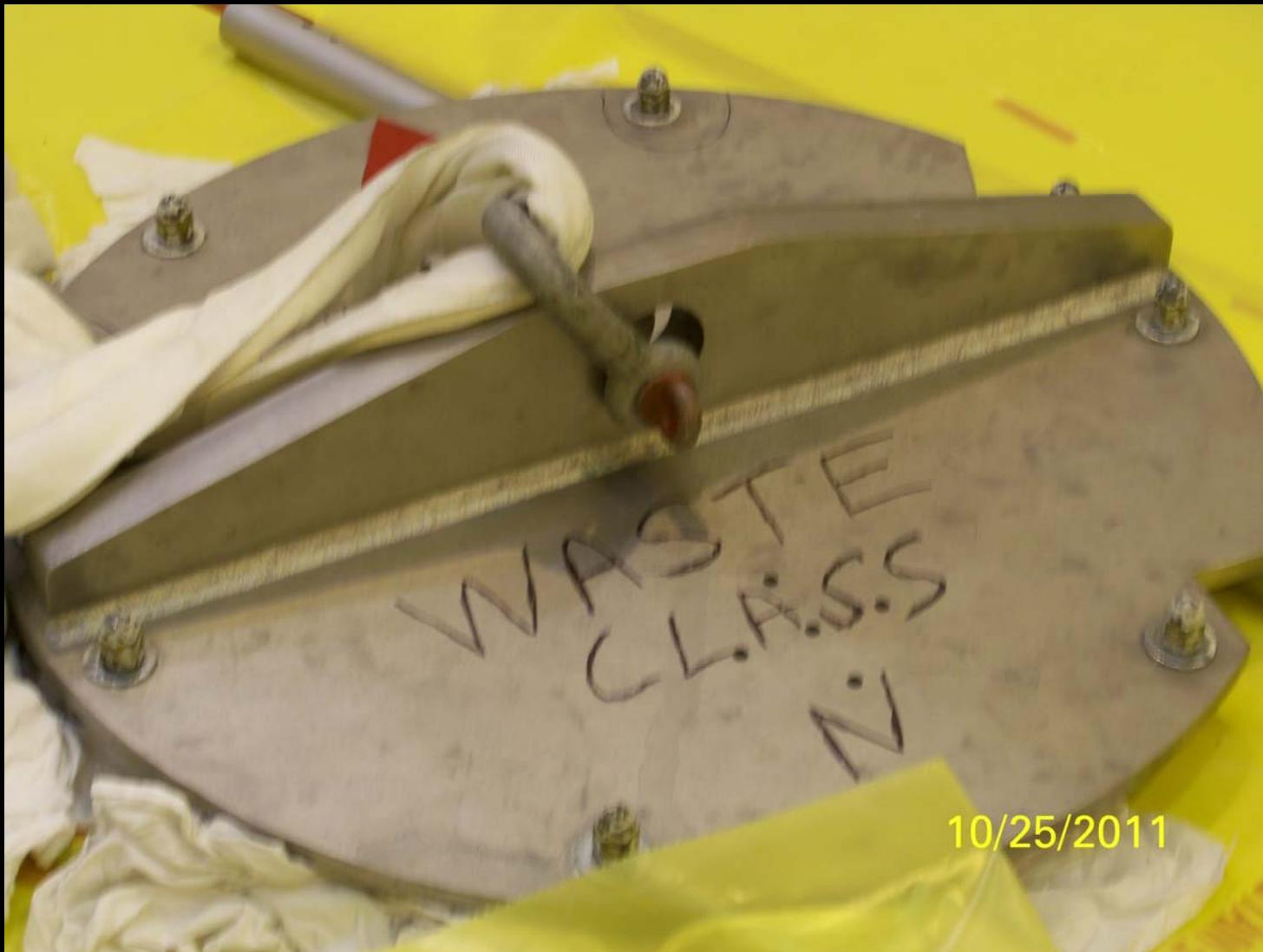
- TPBAR Base Plates
- Tritium
- Producing
- Burnable
- Absorber
- Rod



- TPBAR Base Plates



TVA liner lid



Disposal facility challenges



- Arduous handling
- Contaminated equipment
- Contaminated liner
- High dose remote handling
- Liner lid designs
- Weather





ENERGYSOLUTIONS

Remove rain cover





ENERGYSOLUTIONS

Remove impact limiters



Remove impact limiters



Support equipment



Lifting Beam



Lifting beam



Cask lift – horizontal to vertical



Cask placement



The Boss

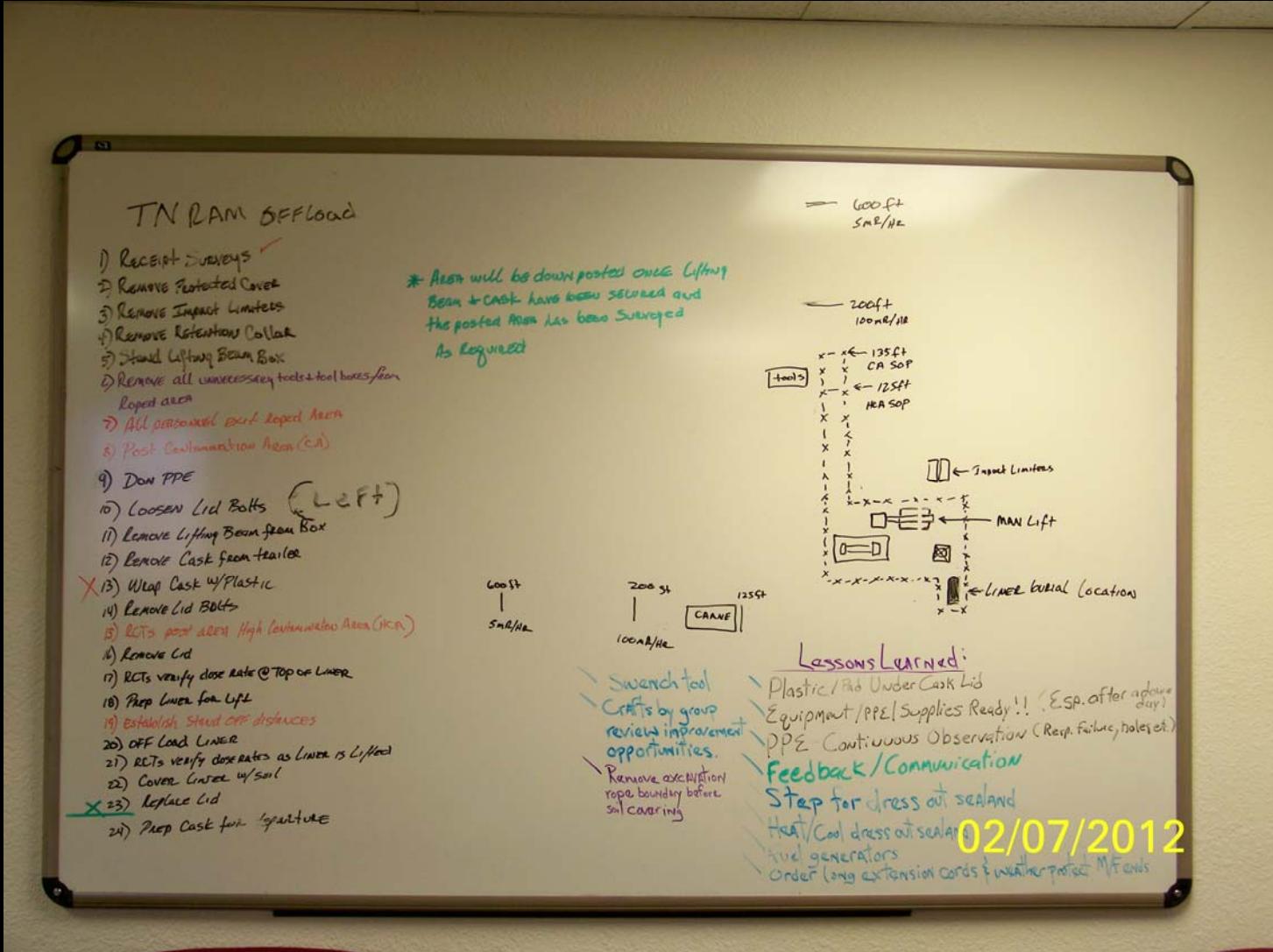


Lift lid



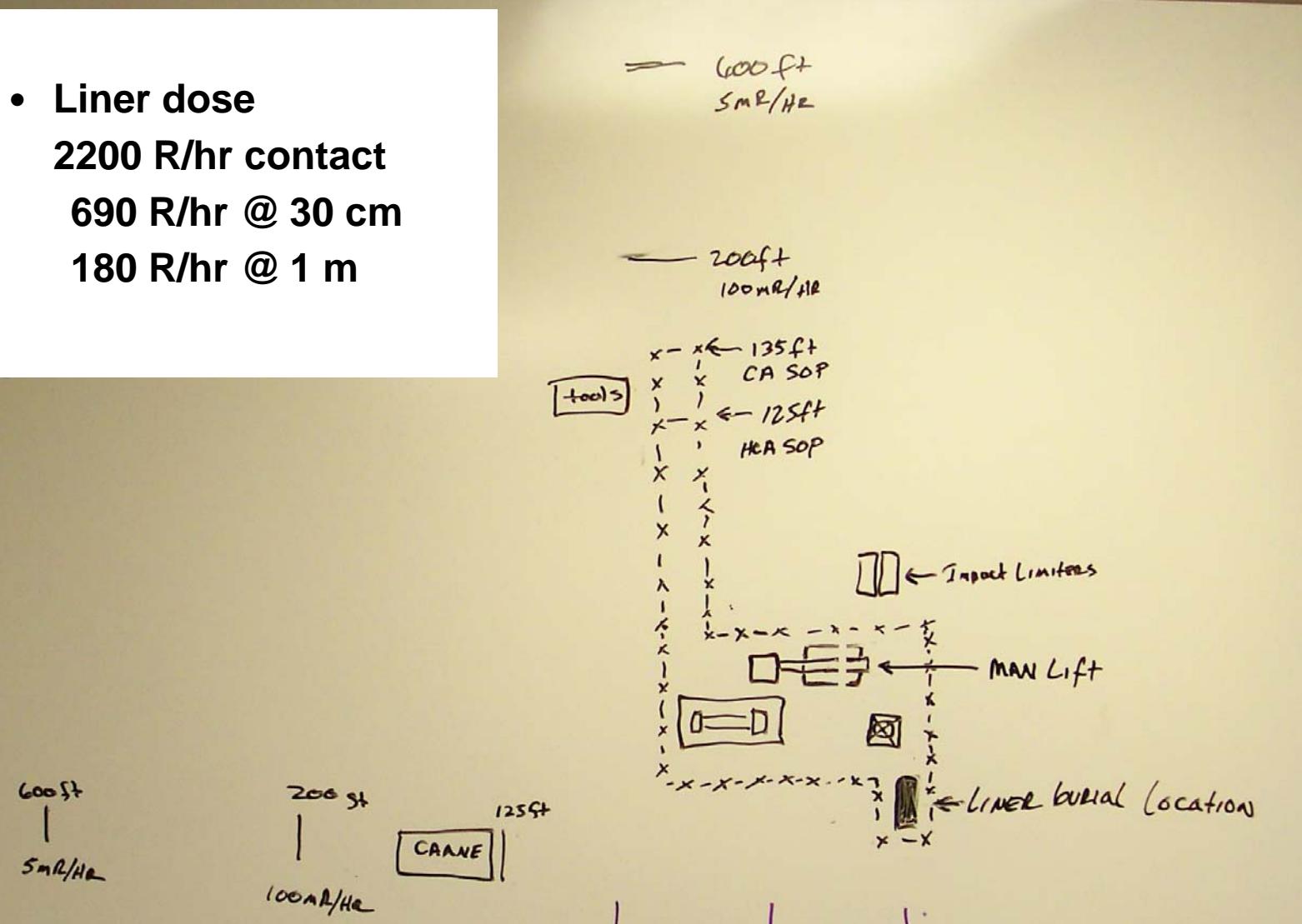
- Transfer of contamination from manipulators in service bay to liner lid.
 - NNSS Operations suspended until RWP revised.
- Unknown levels of contamination when loaded under water.

Planning



High dose – remote handling

- Liner dose
 - 2200 R/hr contact
 - 690 R/hr @ 30 cm
 - 180 R/hr @ 1 m



- Hot and sunny
 - PPE



- Wind
 - 35 mph limit

