

H-Tank Farm NDAA Section 3116 Draft Basis Document NRC Consultation Visit



**Savannah River
Remediation**

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WITH BECHTEL | CH2M HILL | BGSW | AREVA

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June 6, 2013

SRR-CWDA-2013-00080, Rev 1

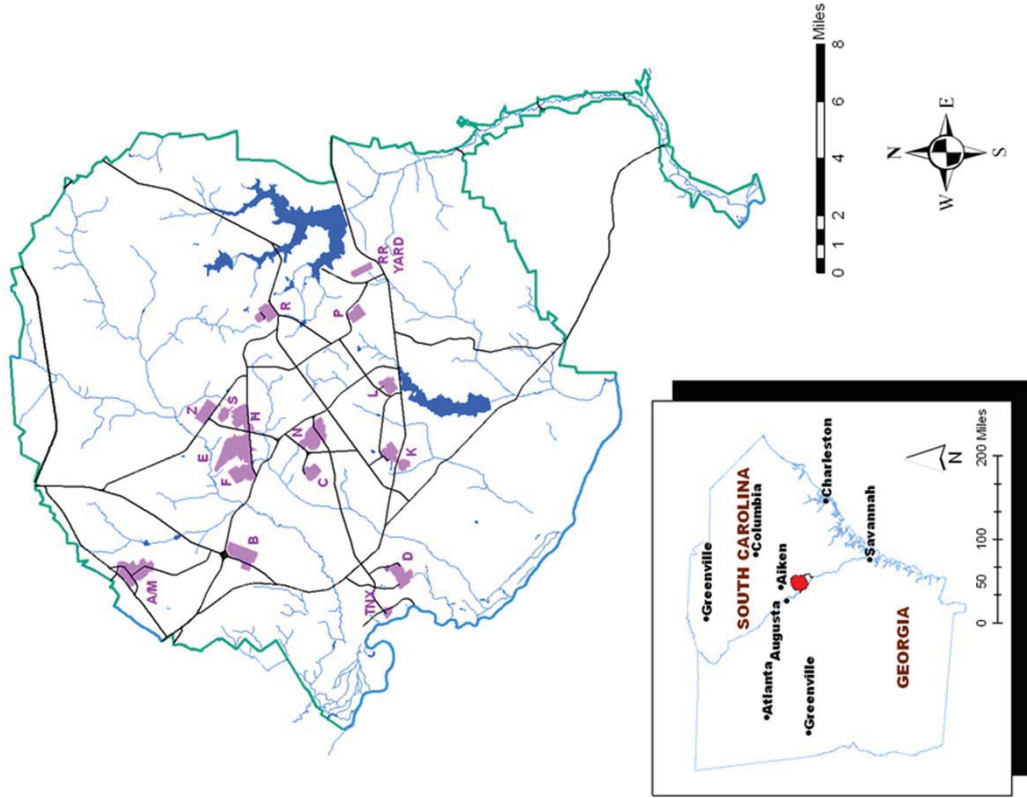
NRC HTF Consultation Visit: H-Tank Farm Tour				
Thursday, June 6, 2013				
Start	End	Topic	Location	Resp.
7:30	8:30	Badging/Travel	Meet 703-46A	C&WDA
8:30	8:45	Opening Remarks & Inbrief	705-1C	DOE C&WDA
8:45	11:00	Tour - H-Tank Farm	H-Tank Farm	C&WDA
11:00	11:30	Technical Discussions • Annulus Volumes: Tanks 9, 10 & 14 • Tank 12 Operating Plan	705-1C	C&WDA
11:30	1:00	Lunch	Offsite	All
1:00	3:00	Technical Discussions • GoldSim Model	705-1C	C&WDA
		General Site Tour (Note 1)	705-1C	C&WDA
3:00	3:30	Outbrief	705-1C	NRC
3:30	N/A	NRC Depart	703-46A	C&WDA

Note 1: During technical discussions a general site tour will be provided for Sarah Price

H-Tank Farm Tour

- HTF Background Information
- Status: H-Tank Farm Tanks
- HTF Tour Briefing
- HTF Tour (Includes well P-27D)

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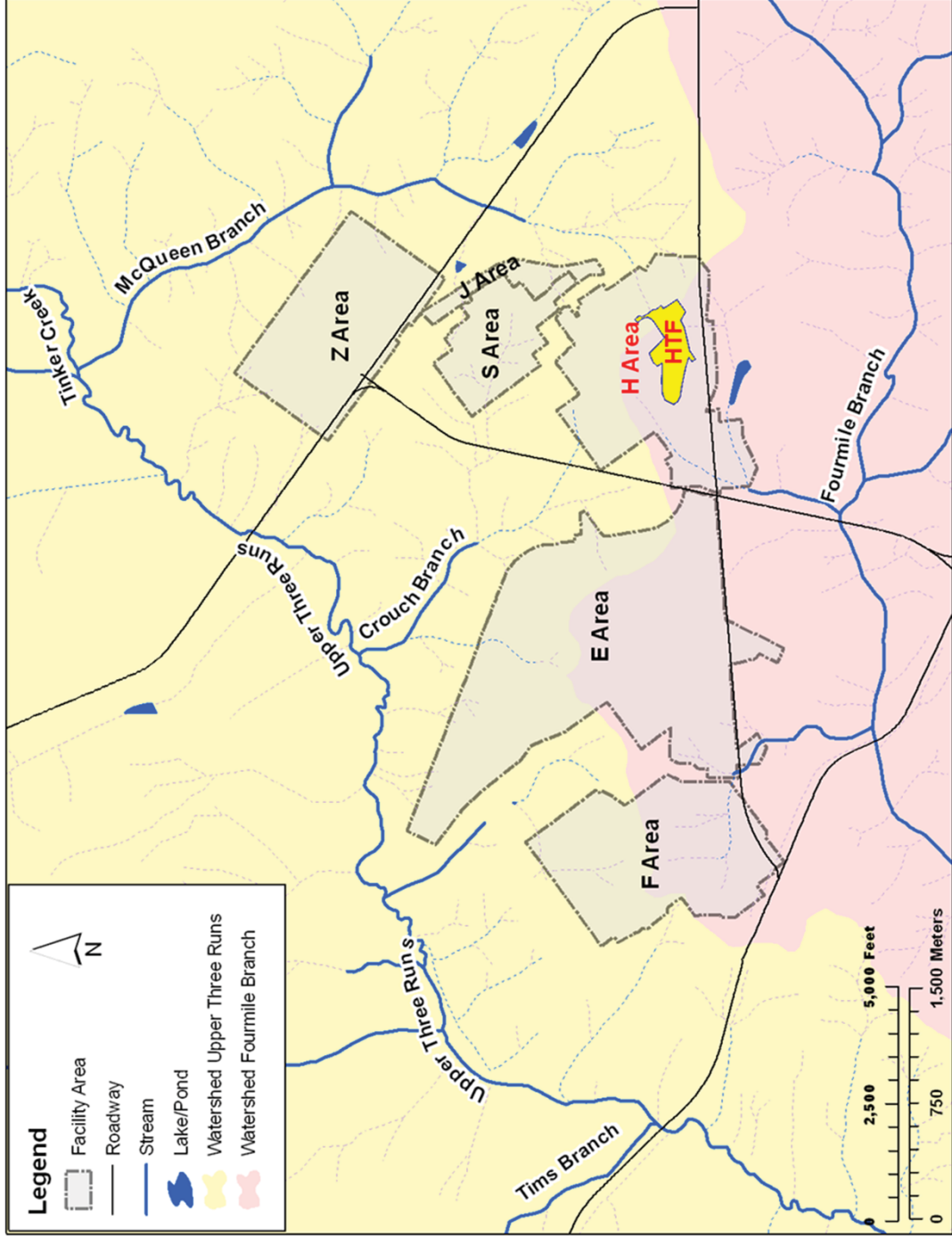


Savannah River
Remediation

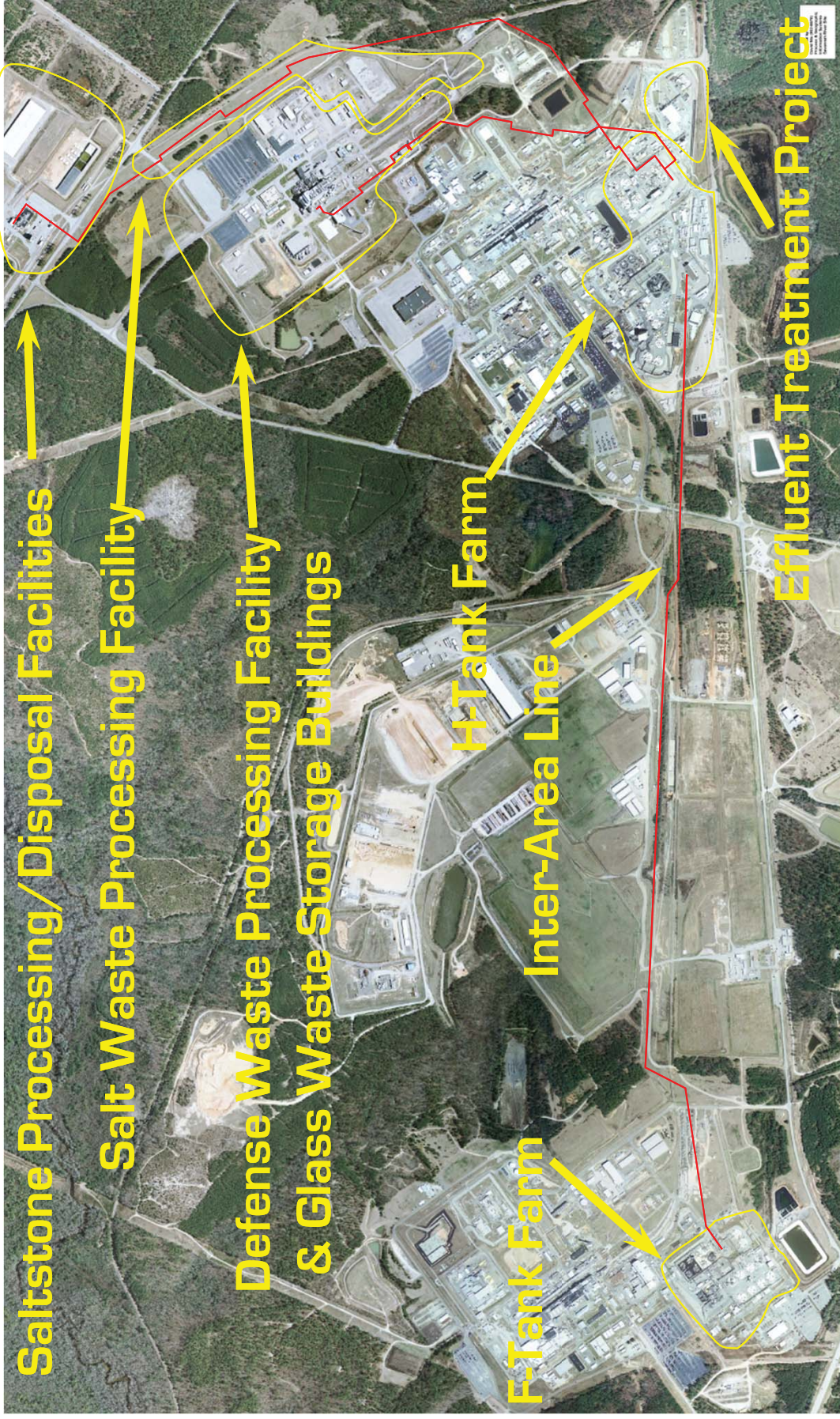
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General Separations Area

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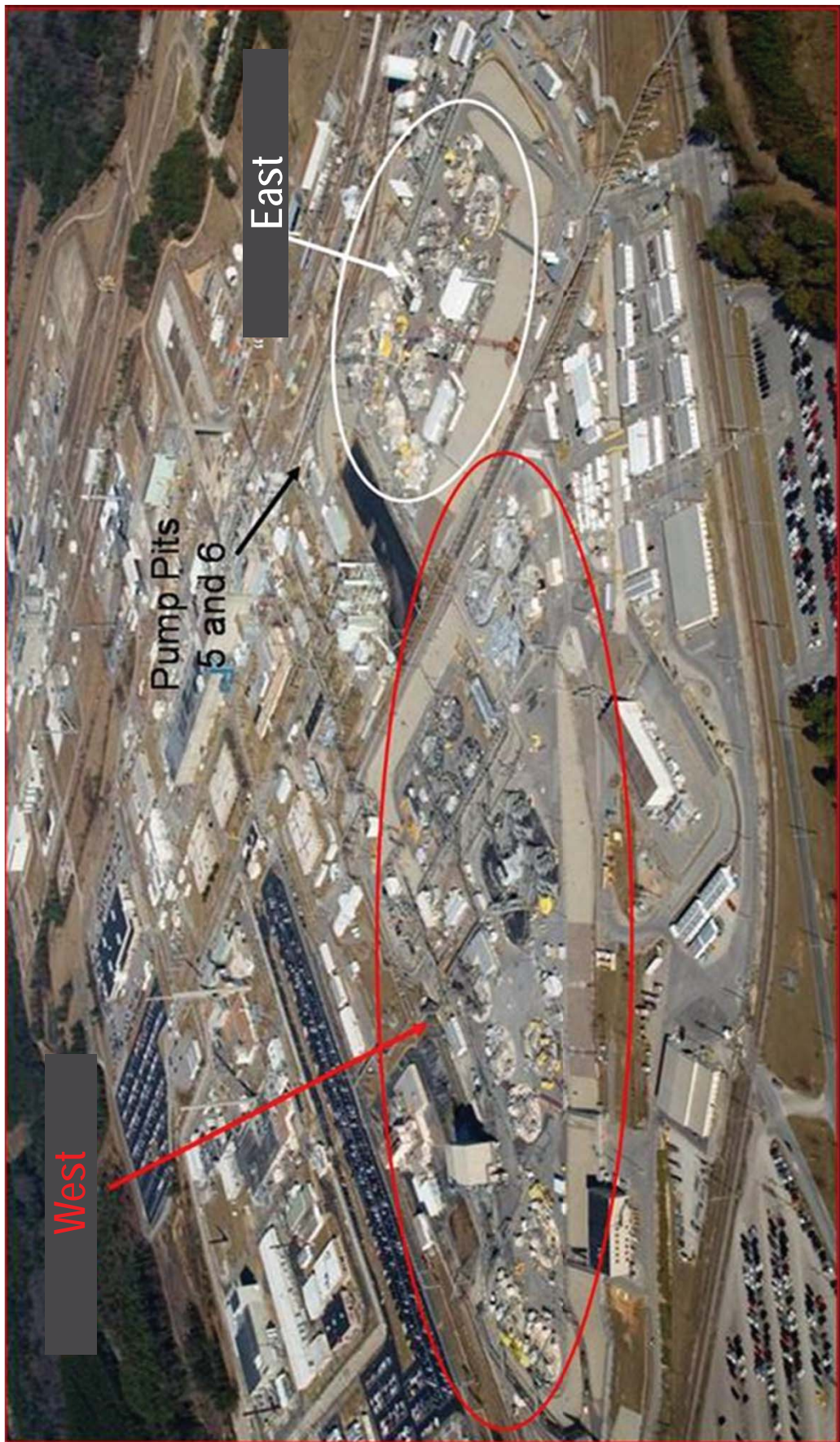


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H-Tank Farm (East)

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H-Tank Farm

- 29 waste tanks
 - 4 Type I tanks
 - 4 Type II tanks
 - 4 Type III tanks
 - 13 Type IIIA tanks
 - 4 Type IV tanks
- 3 evaporators
- ~75,000 feet of transfer lines

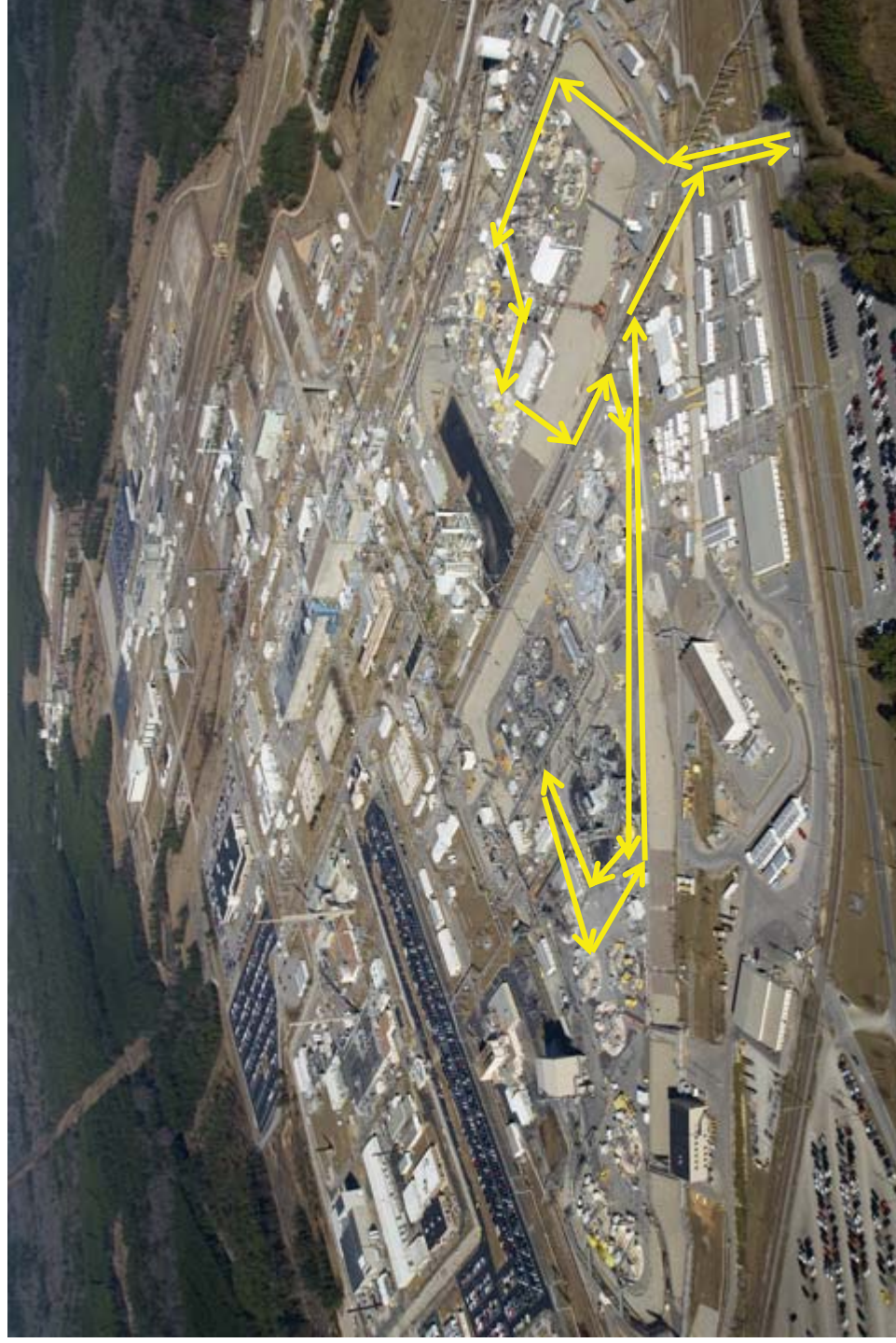
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- Tank 16 has undergone an extensive waste removal campaign (Type II tank) and sampling is in-progress
- Tank 12 is in the process of heel removal (Type I tank)
- Tank 11 has completed bulk waste removal efforts (Type I tank)
- Tank 13 is undergoing bulk waste removal efforts (Type II tank)
- Tank 10 is undergoing bulk waste removal efforts (Type I tank)
- Waste removal activities, for the purpose of final waste tank closure, have not been initiated on one Type I tank (Tank 9), two Type II tanks (Tanks 14 and 15), the four Type IV tanks or the seventeen Type III/IIIA tanks located in HTF

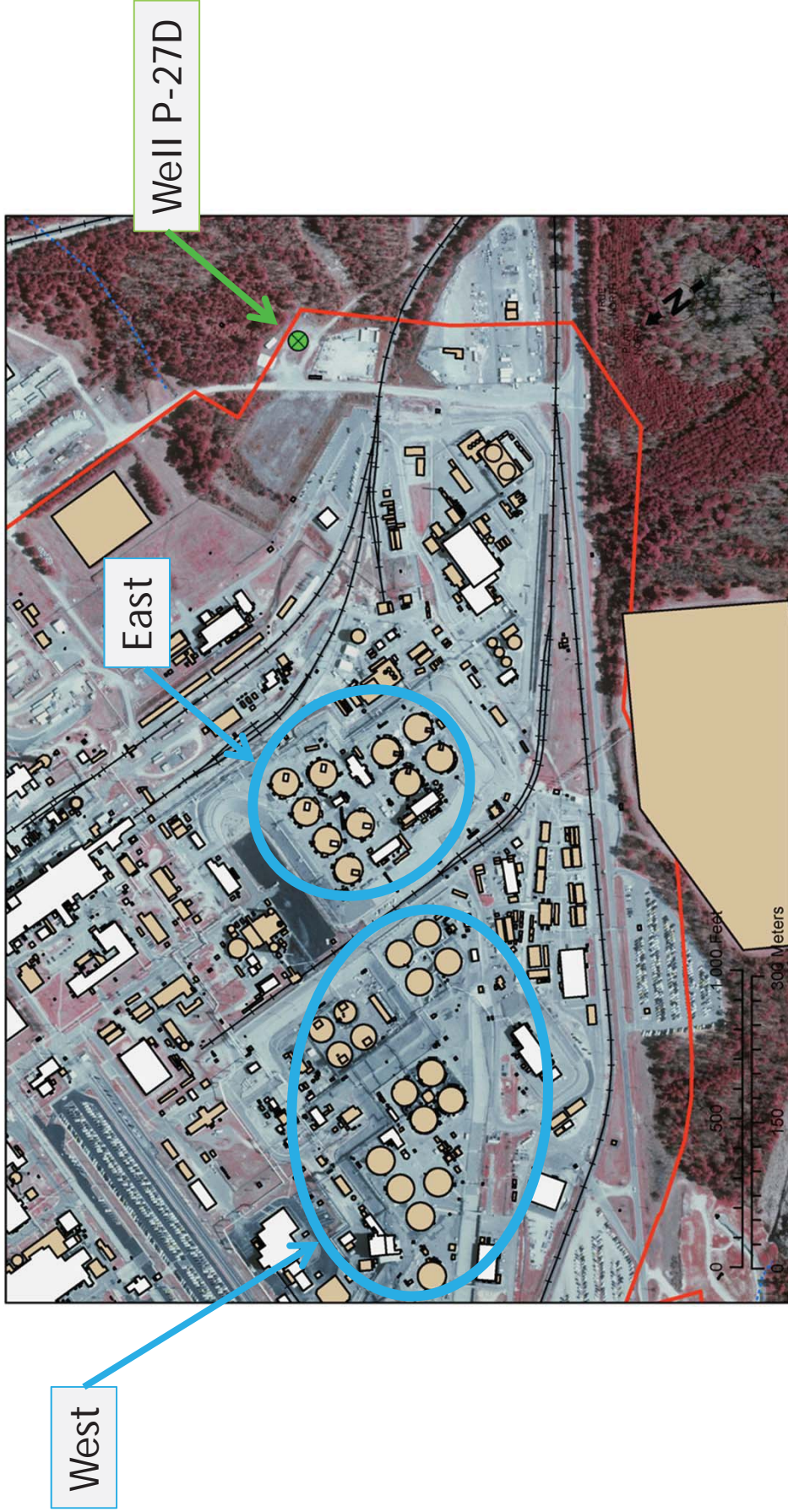
H-Tank Farm Tour

- H-Tank Farm is a property protection area, no security escorts required for uncleared personnel within area.
- Personnel involved in tour should stay in contact with designated SRS personnel in order to provide instruction in the event of a need to shelter or evacuate the work area.
- At this time, tour areas are not considered construction work zones personnel will not be required to sign in on safe work permits.
- No areas on tour path requires sign in on a Radiological Work Permit (RWP) or wearing of rad dosimetry.
- Heat oasis stations are available in multiple locations for cool off and hydration as required.

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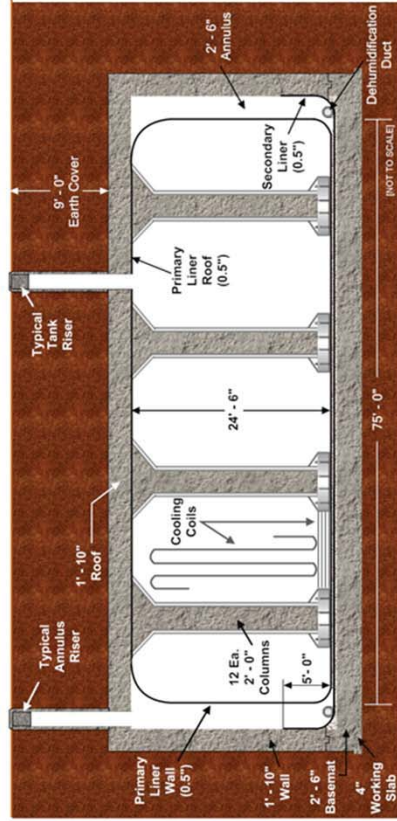


H-Tank Farm Tour (Well P-27D)

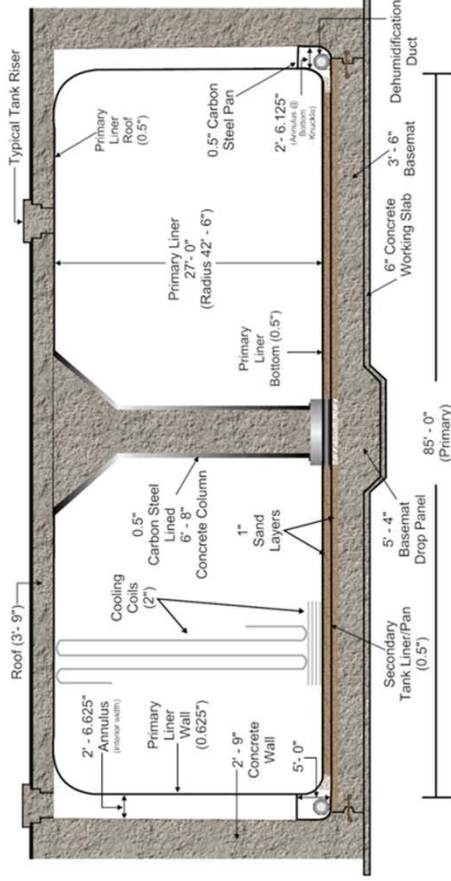


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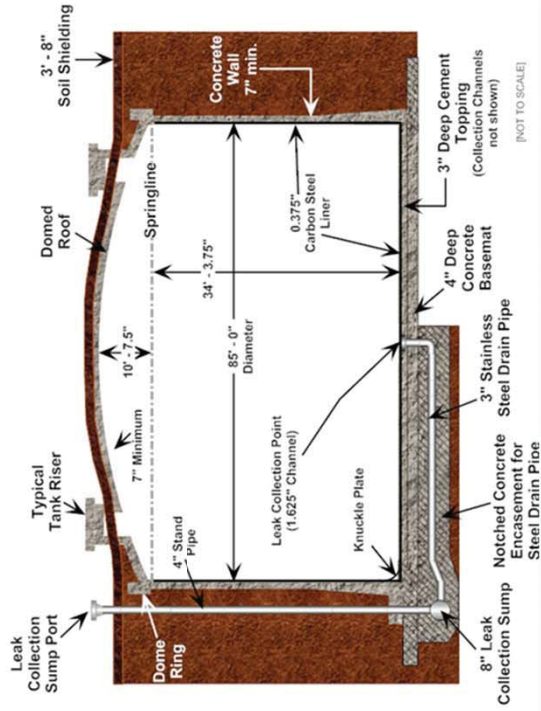
TYPICAL TYPE I WASTE TANK



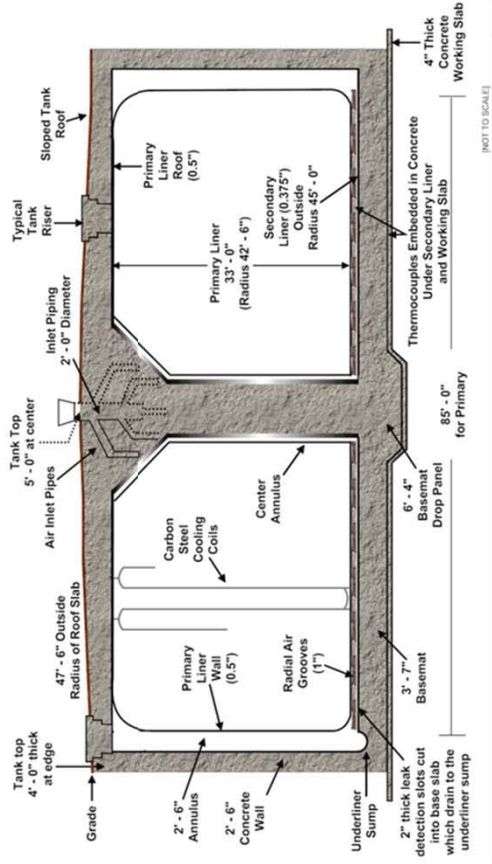
TYPICAL TYPE II WASTE TANK

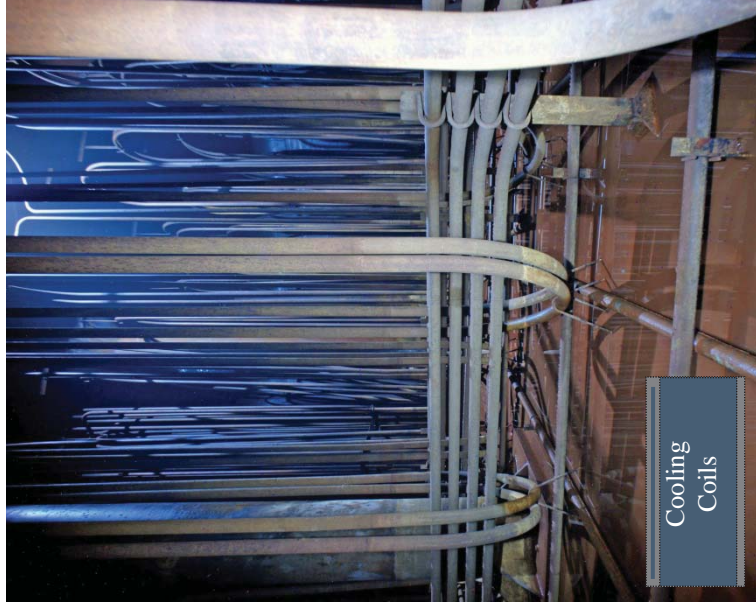
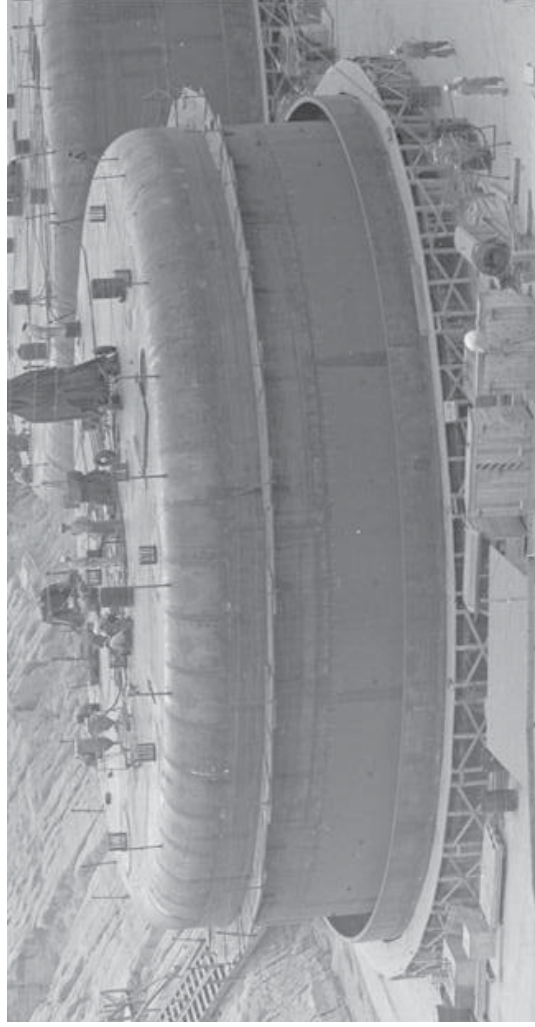


TYPICAL TYPE IV WASTE TANK



TYPICAL TYPE IIIA WASTE TANK

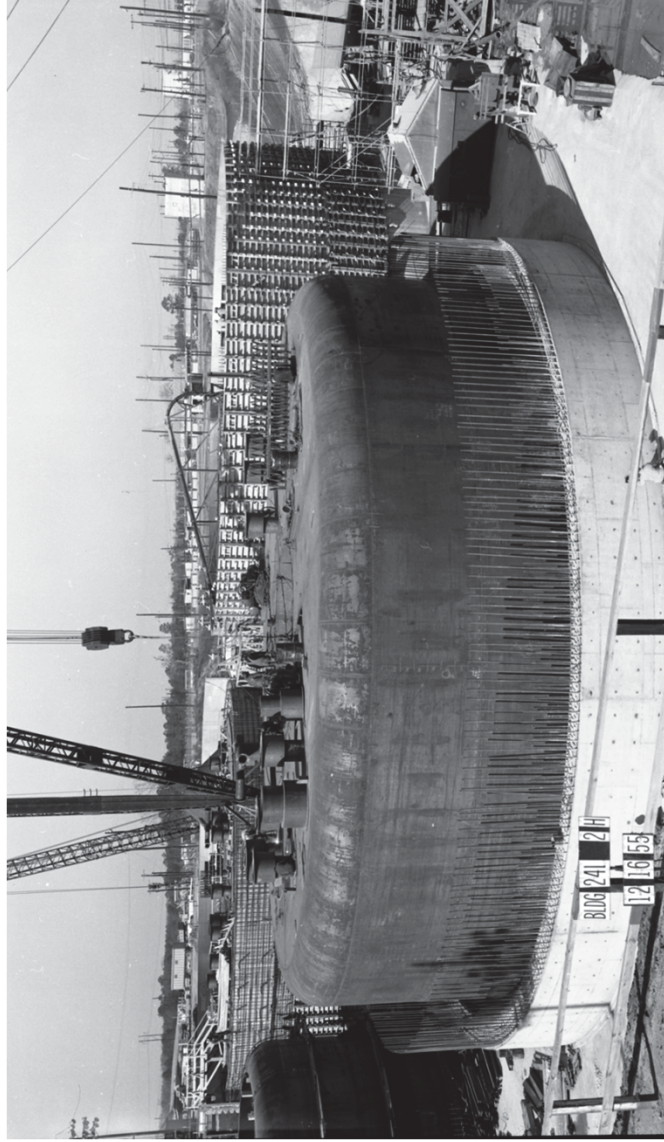




Cooling
Coils

HTF Contains Four Type I Tanks
(Tanks 9, 10, 11, 12)

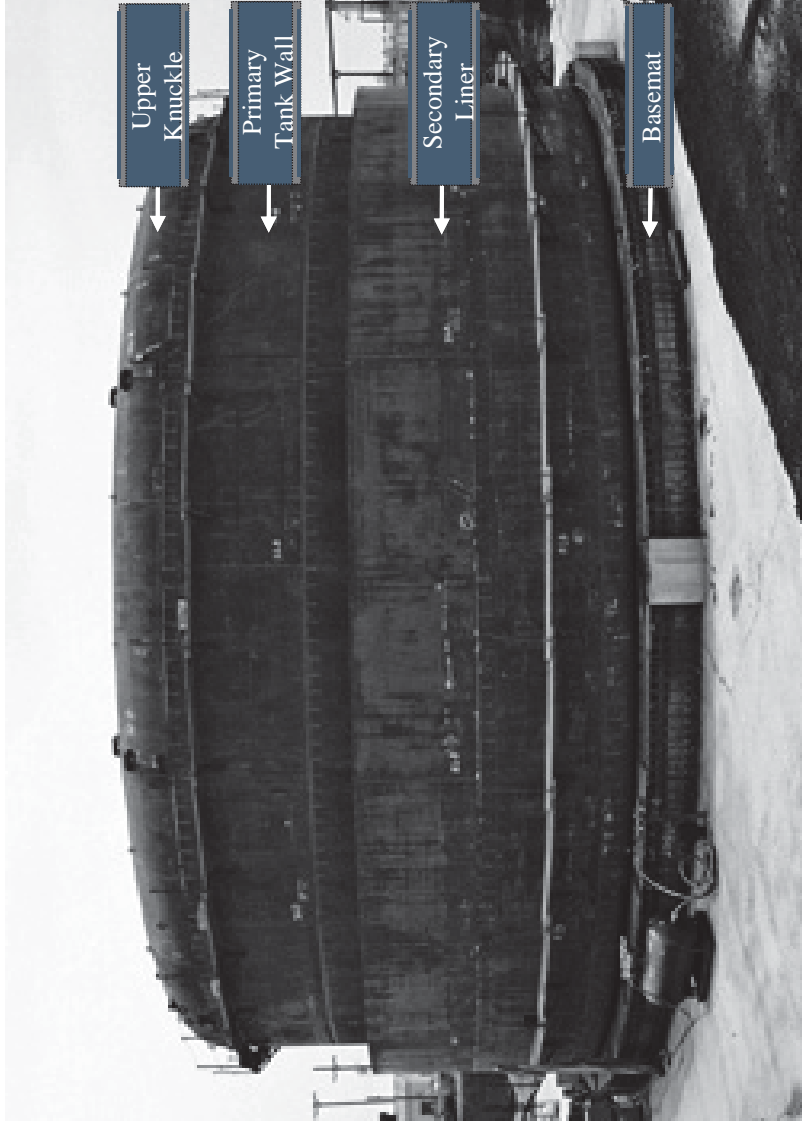
Type II Tank



Cooling
Coils

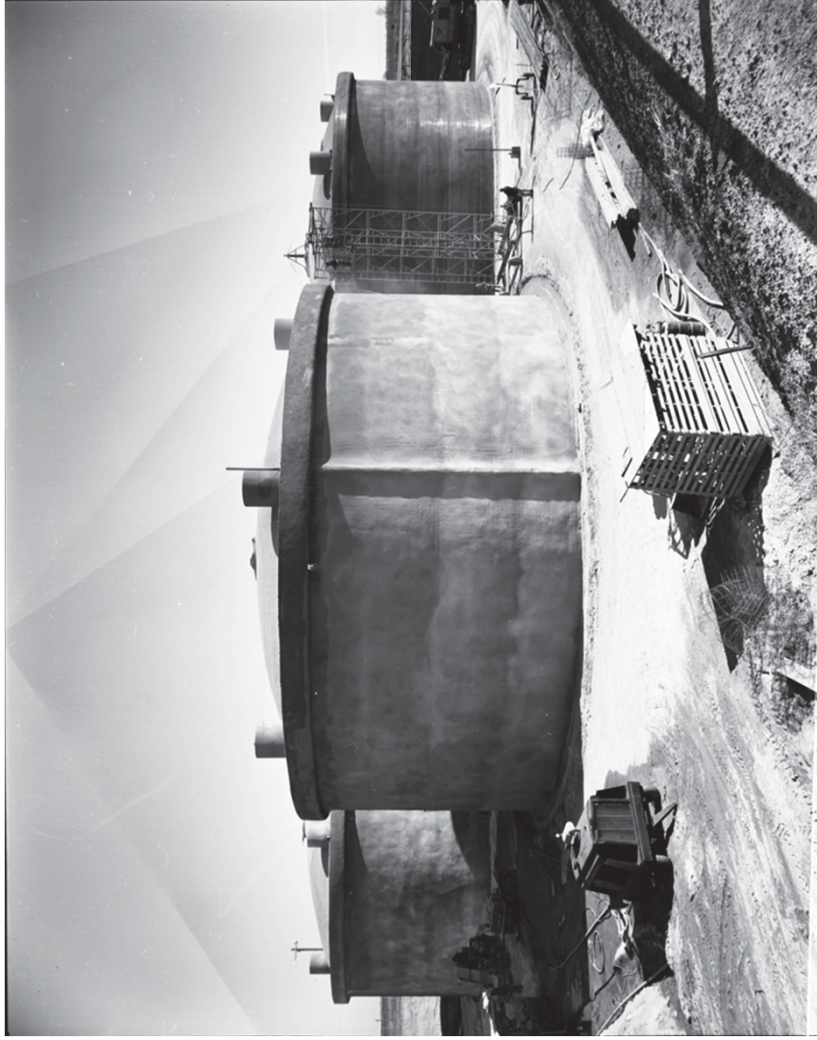
HTF Contains Four Type II Tanks
(Tanks 13, 14, 15, 16)

Type III/IIIA Tank

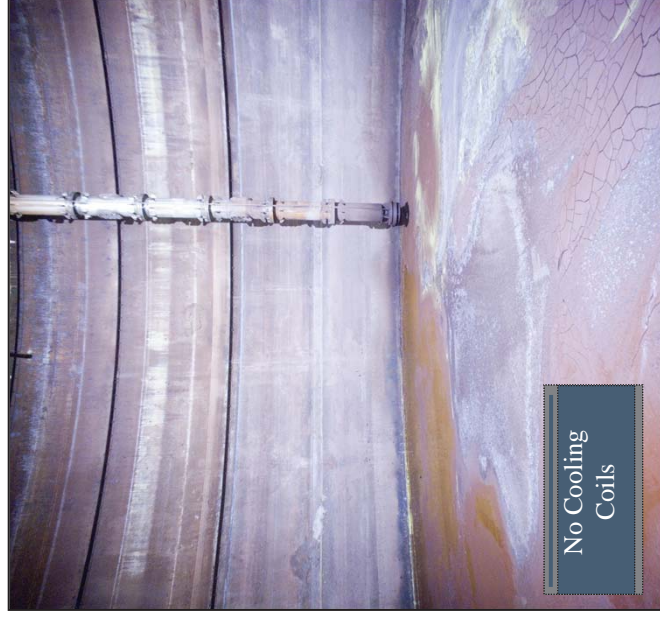


HTF Contains Seventeen Type III/IIIA Tanks
(Type III: Tanks 29 through 32)
(Type IIIA: Tanks 35 through 43 & 48 through 51)

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**HTF Contains Four Type IV Tanks
(Tanks 21, 22, 23, 24)**



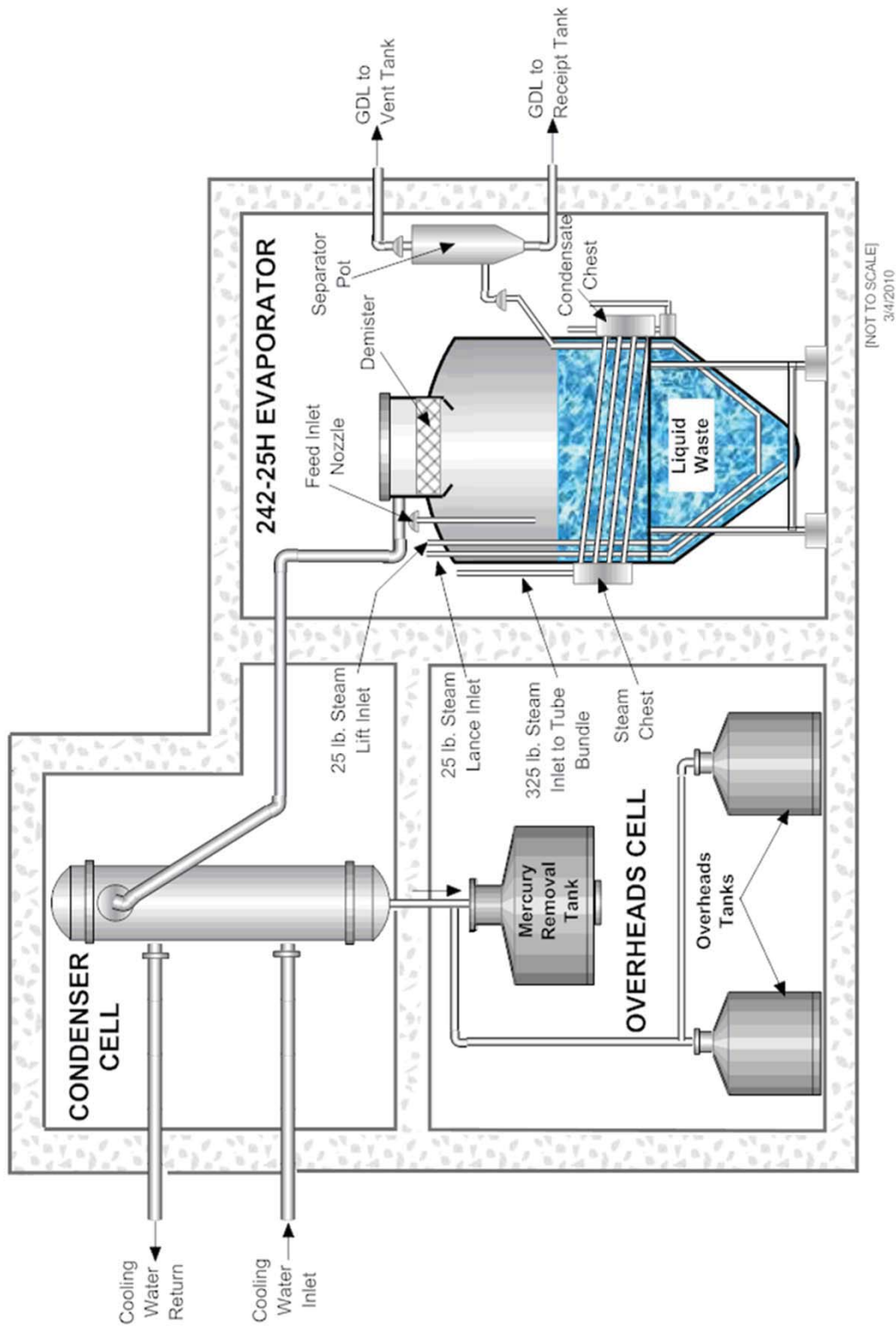
**No Cooling
Coils**

We do the right thing.

- Three - Evaporator Systems
- Transfer Line System
 - Transfer Lines
 - Leak Detection Boxes
 - Modified Leak Detection Boxes
- Eight - Diversion Boxes
- Ten - Pump Pits
- Nine - Pump Tanks
- Eleven - Valve Boxes
- One - Catch Tank
- Two - Concentrate Transfer Systems

Evaporator

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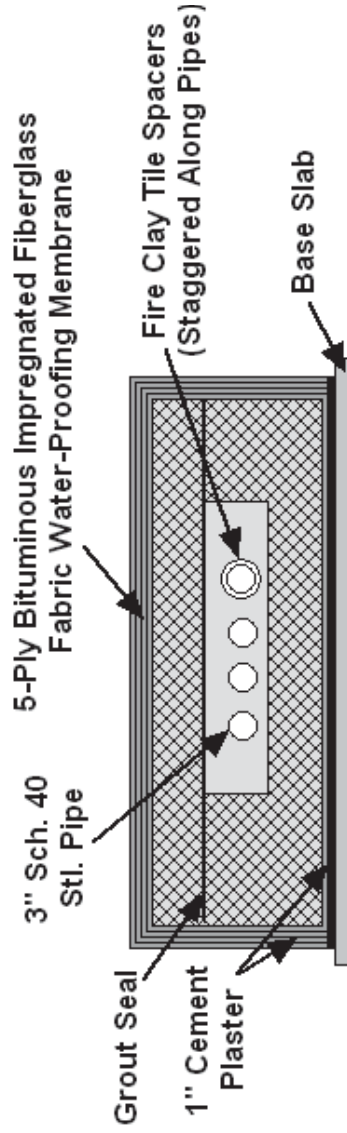
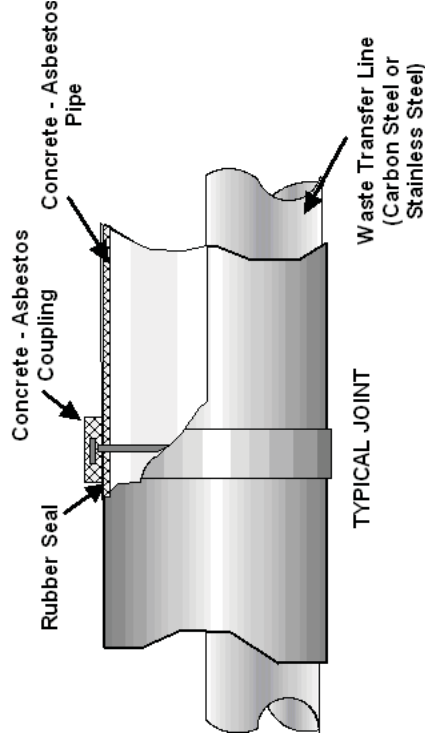
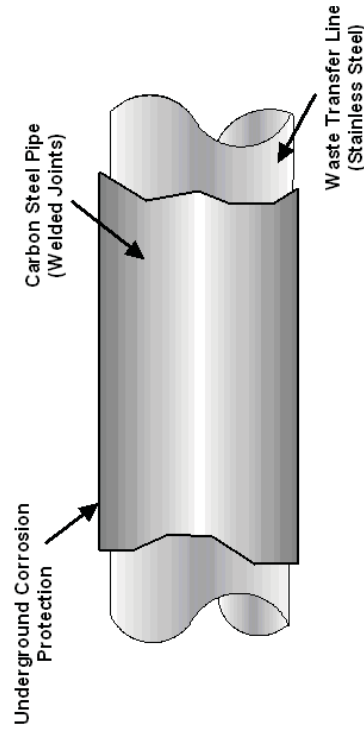
2H Evaporator



3H Evaporator



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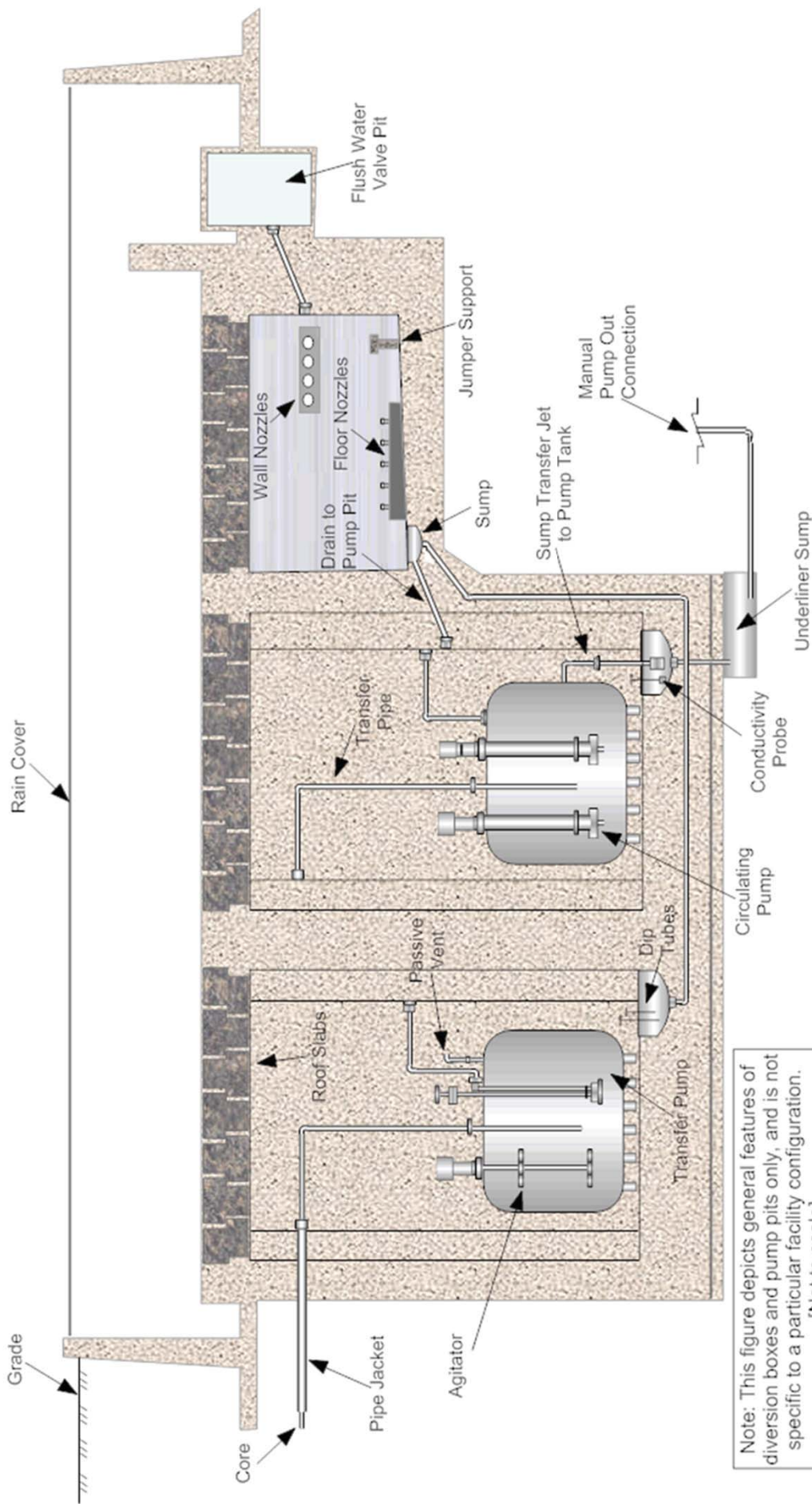


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Transfer Lines
Under
Construction

Pump Pit & Diversion Box



Note: This figure depicts general features of diversion boxes and pump pits only, and is not specific to a particular facility configuration.
[Not to scale]

Pump Pit & Pump Tank

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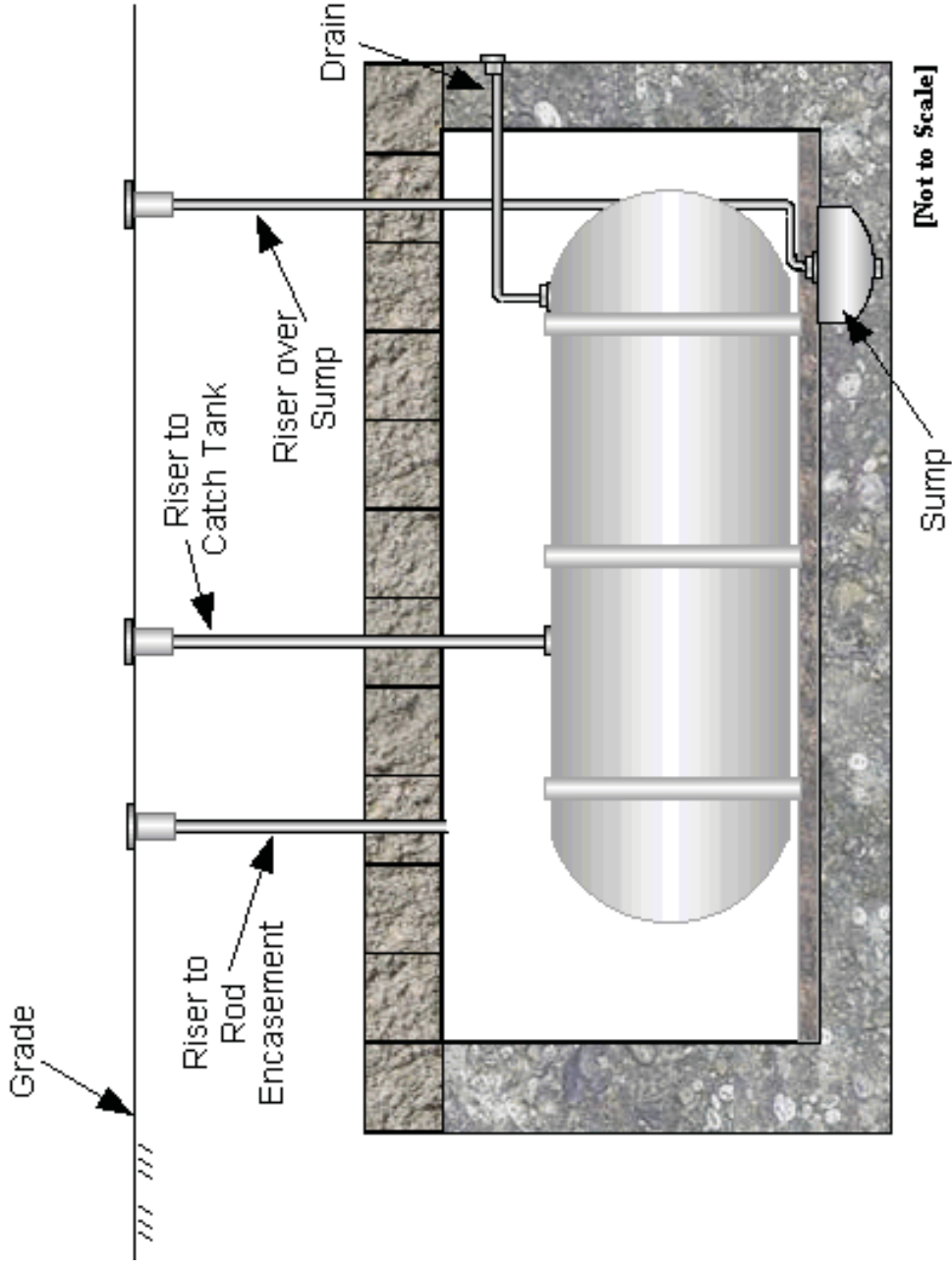


Diversion Box

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Catch Tank

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Technical Discussions

- Annulus Volumes Tanks 9, 10 and 14
- Tank 12 Operating Plan
 - Break for Lunch
- HTF GoldSim Model

NRC HTF Outbrief

- NRC Staff Outbrief
- Action Items Captured
- Closing Statements

Action Items

1. DOE to provide NRC an electronic copy of presentation material [SRR-CWDA-2013-00080, Revision 1] including action items and attendance roster.
2. DOE to Provide NRC a copy of the Tank 16 annulus cleaning mock-up test report.
3. Doe to provide NRC a copy of the Tank 12 Bulk Oxalic Acid Cleaning Operating Plan, U-ESR-H-00103.
4. DOE to provide NRC a copy of the FORTRAN source code for the Dynamic Link Libraries (DLLs) supporting GoldSim modeling.
5. DOE to evaluate available documentation relative to waste tanks with groundwater in-leakage in to the tank annulus. If available DOE will provide documentation to the NRC.

