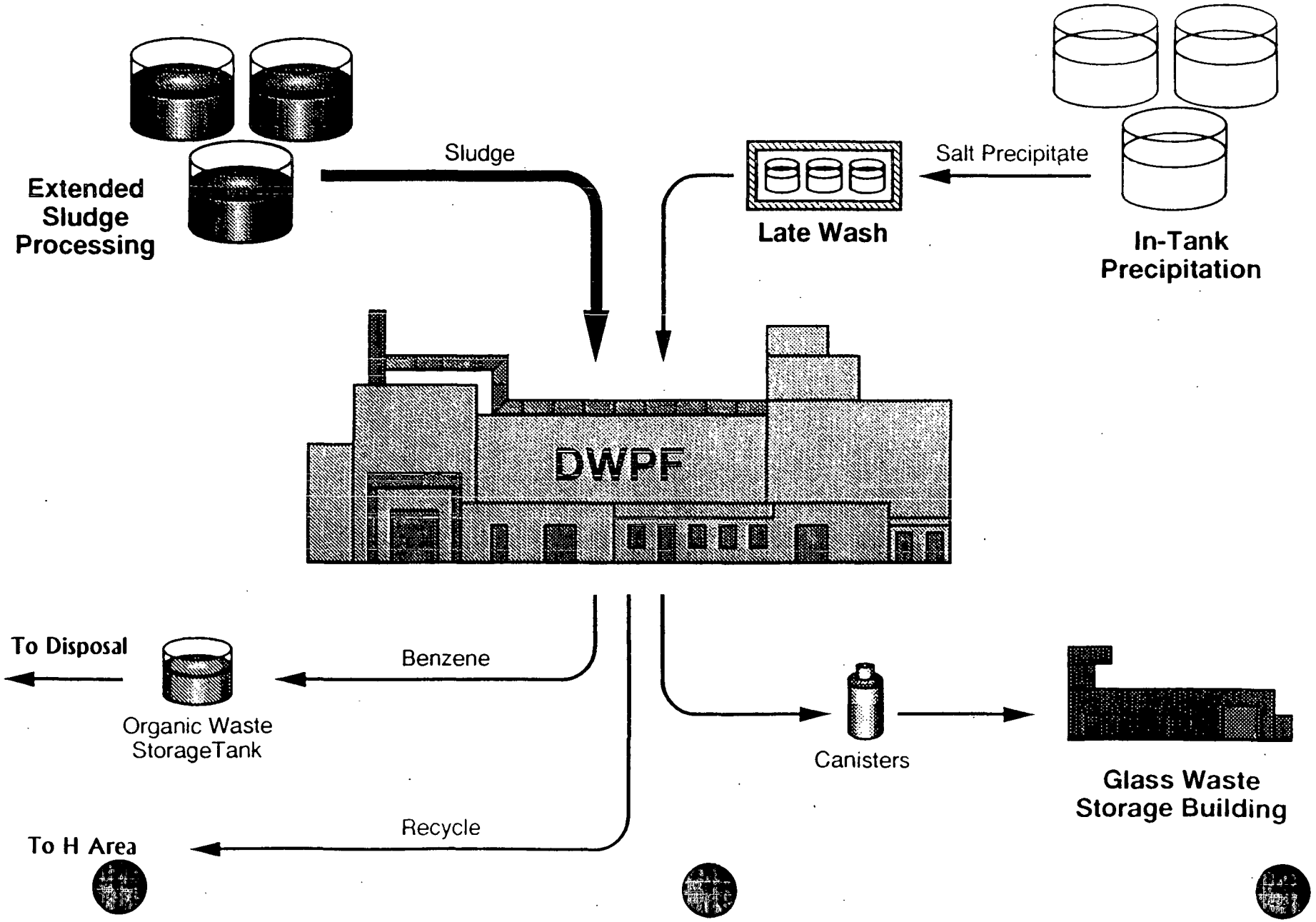
Presentation to
Nuclear Waste Technical Review Board

M. N. Brosee

December 17, 1997

Radisson Hotel
Augusta, GA

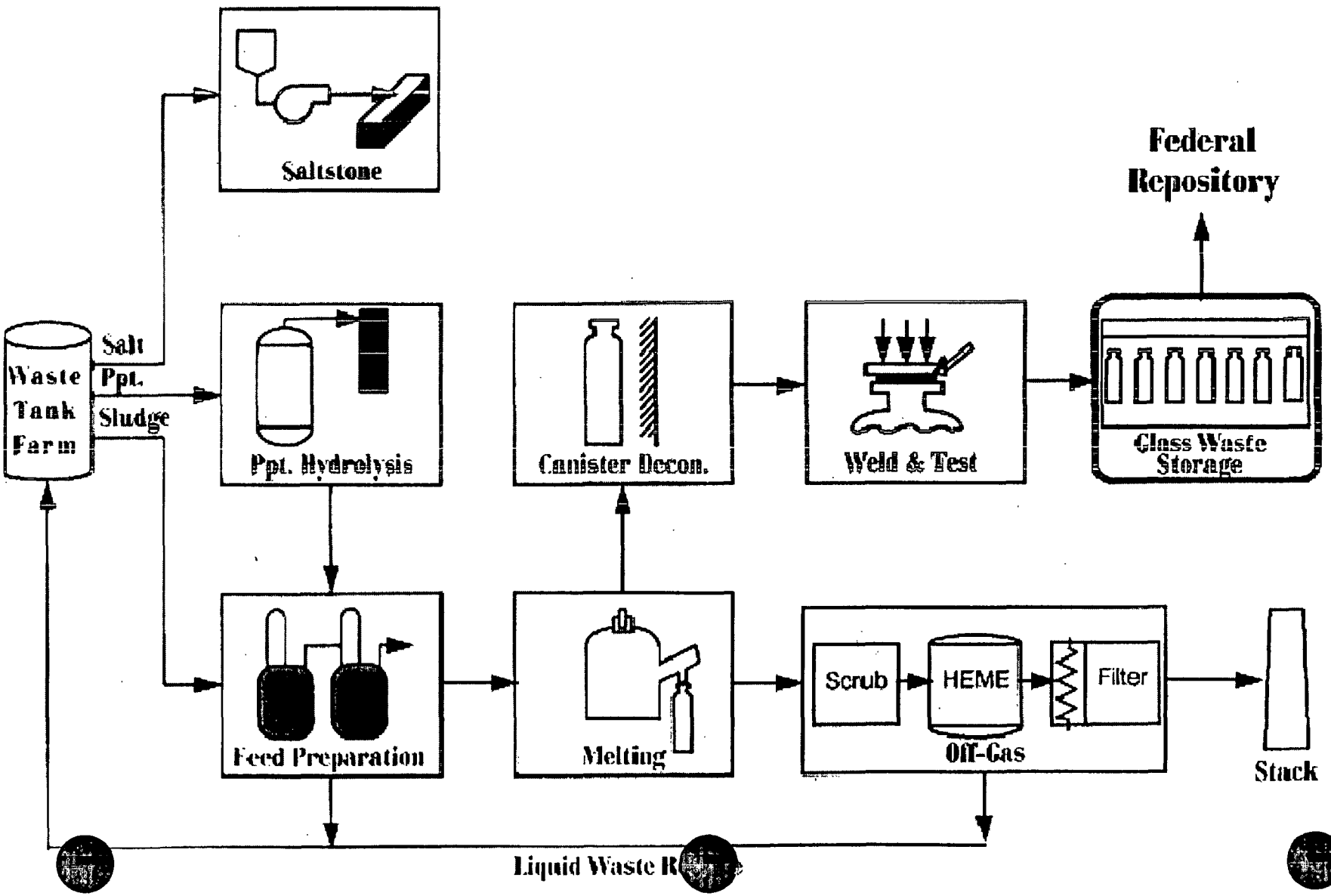
HIGH LEVEL WASTE SYSTEM



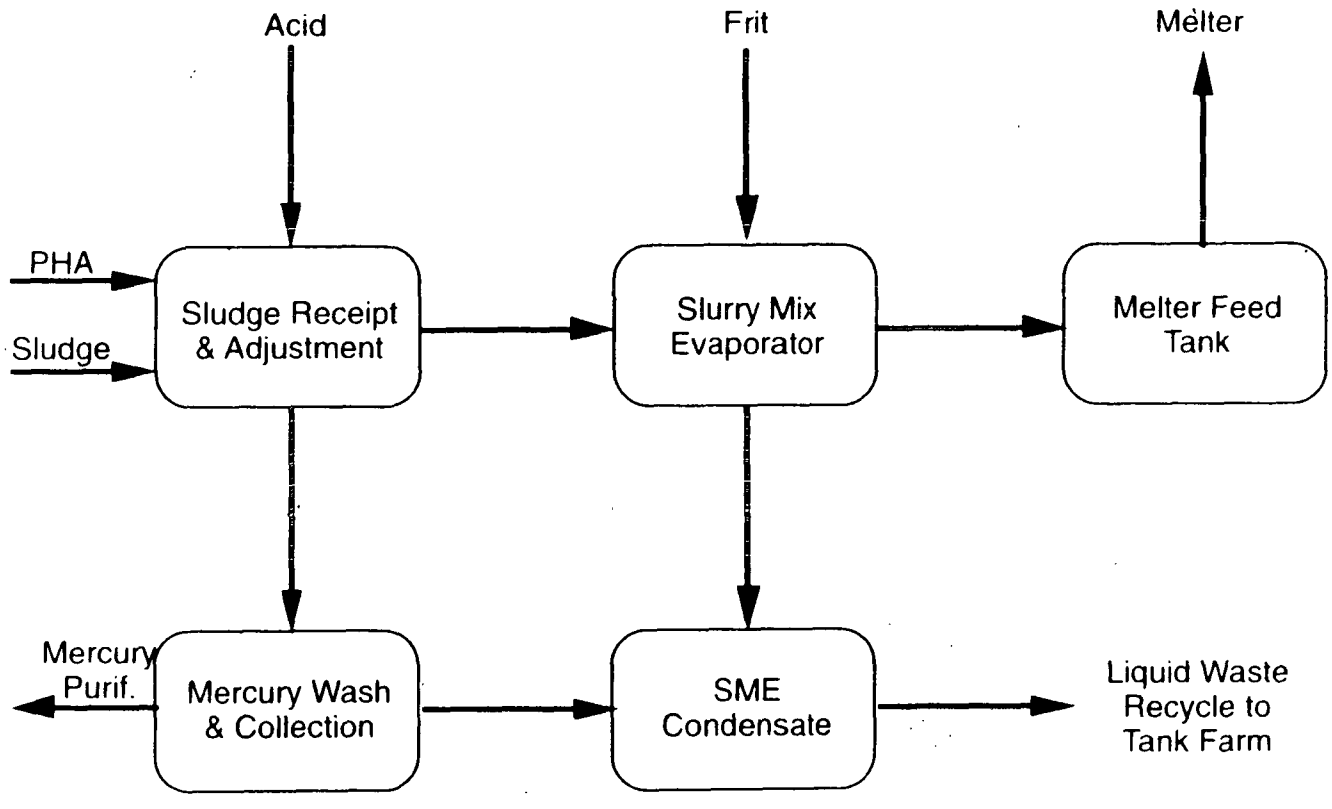
HIGH LEVEL WASTE (HLW) MISSION

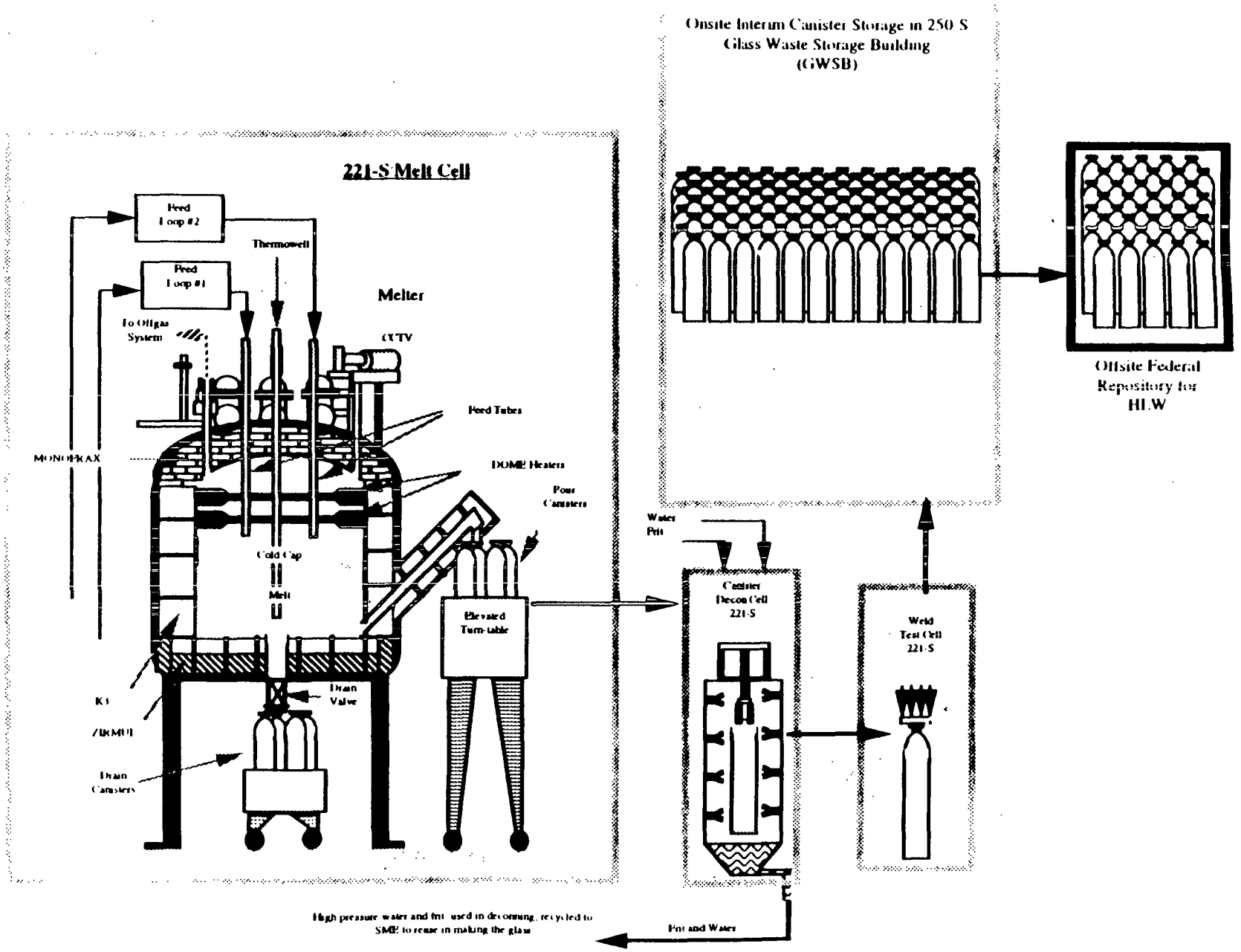
- Conduct all operations in an open, safe, environmentally sound and cost effective manner
- Receive and safely store the inventory of DOE high level waste
- Stabilize and/or treat radioactive waste for disposal
- Vitrified high level waste and store onsite until a Federal Repository is available
- Close aging HLW facilities and place in a low surveillance mode until final disposition

DWPF PROCESS

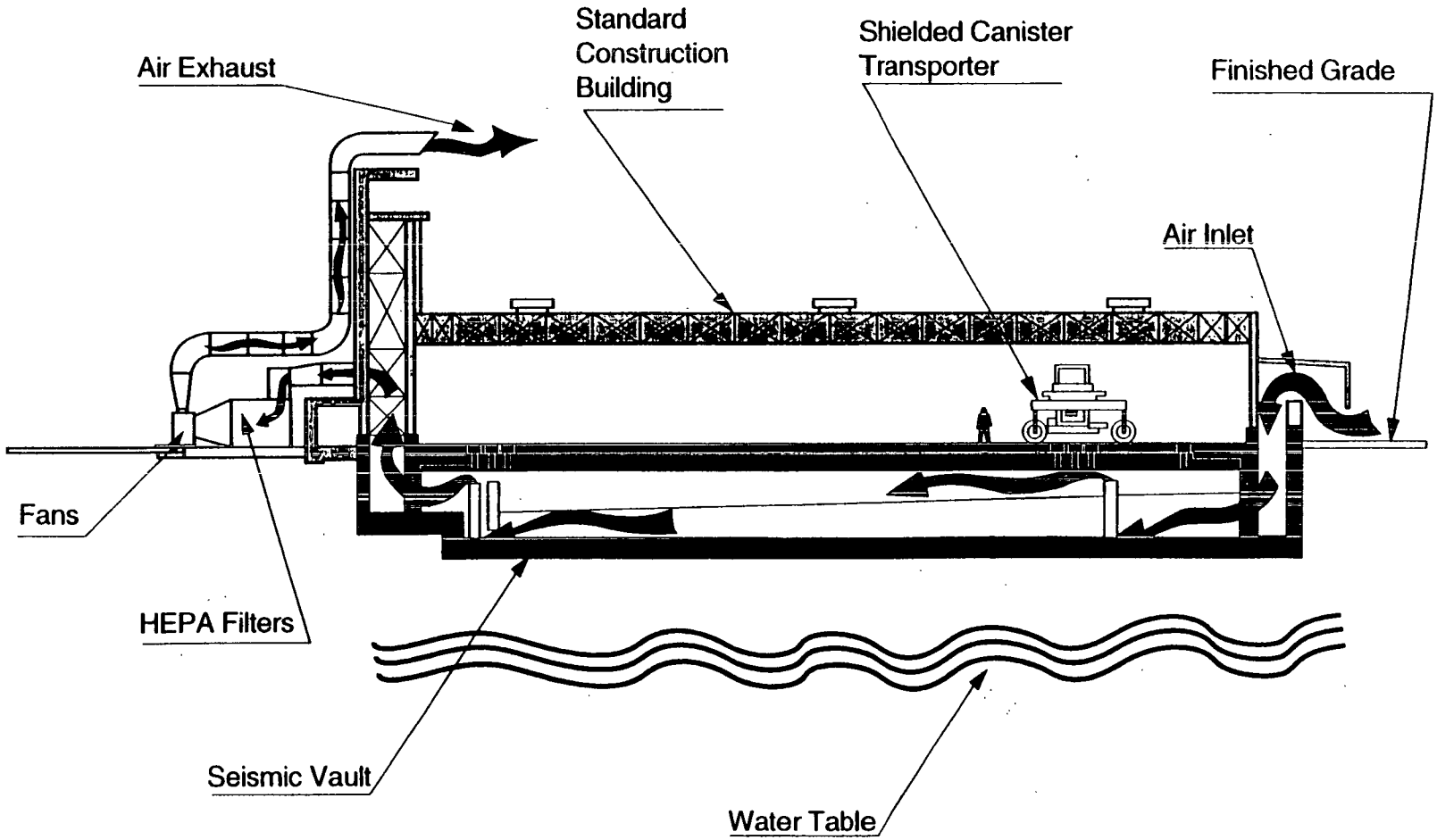


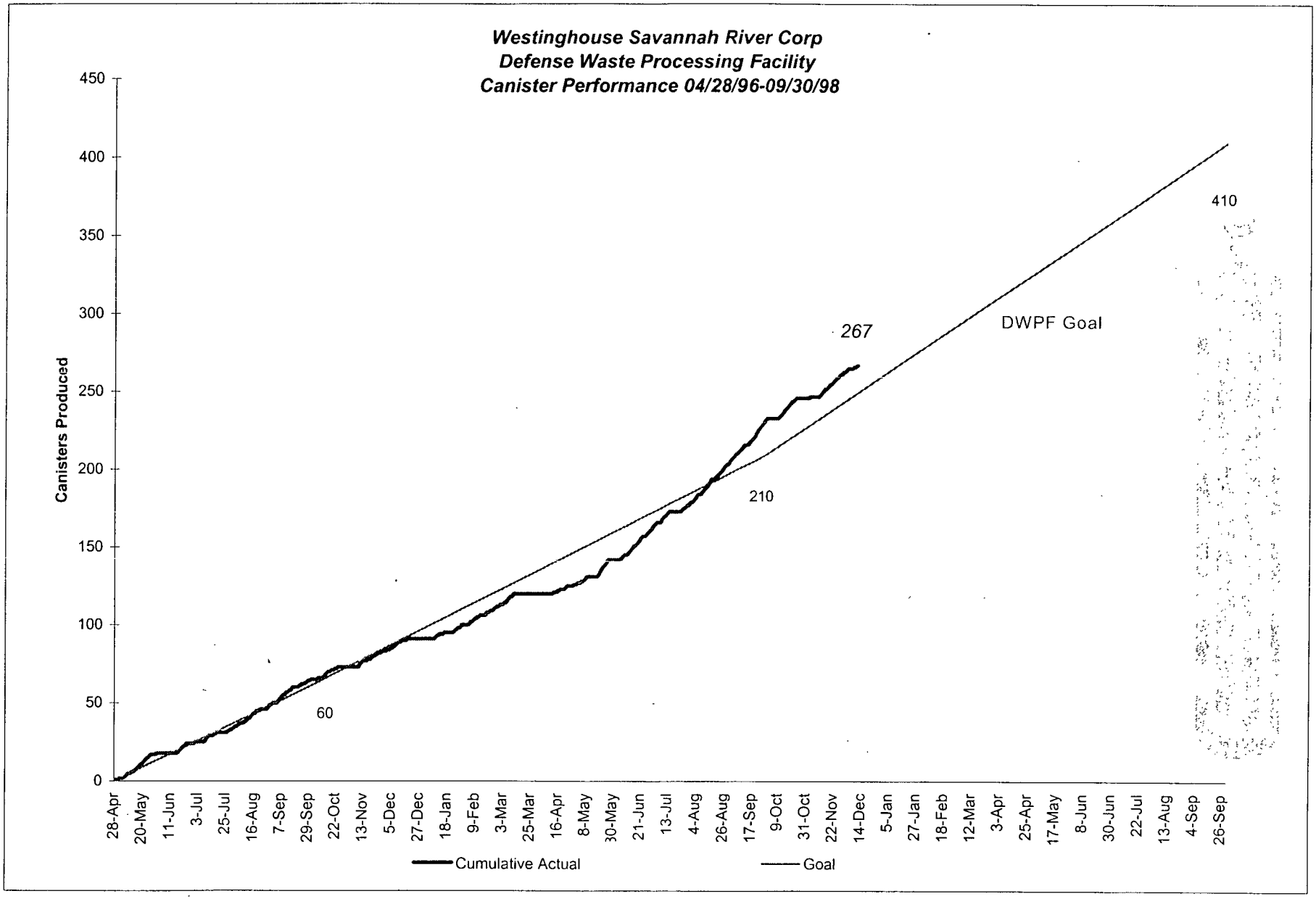
MELTER FEED PREPARATION



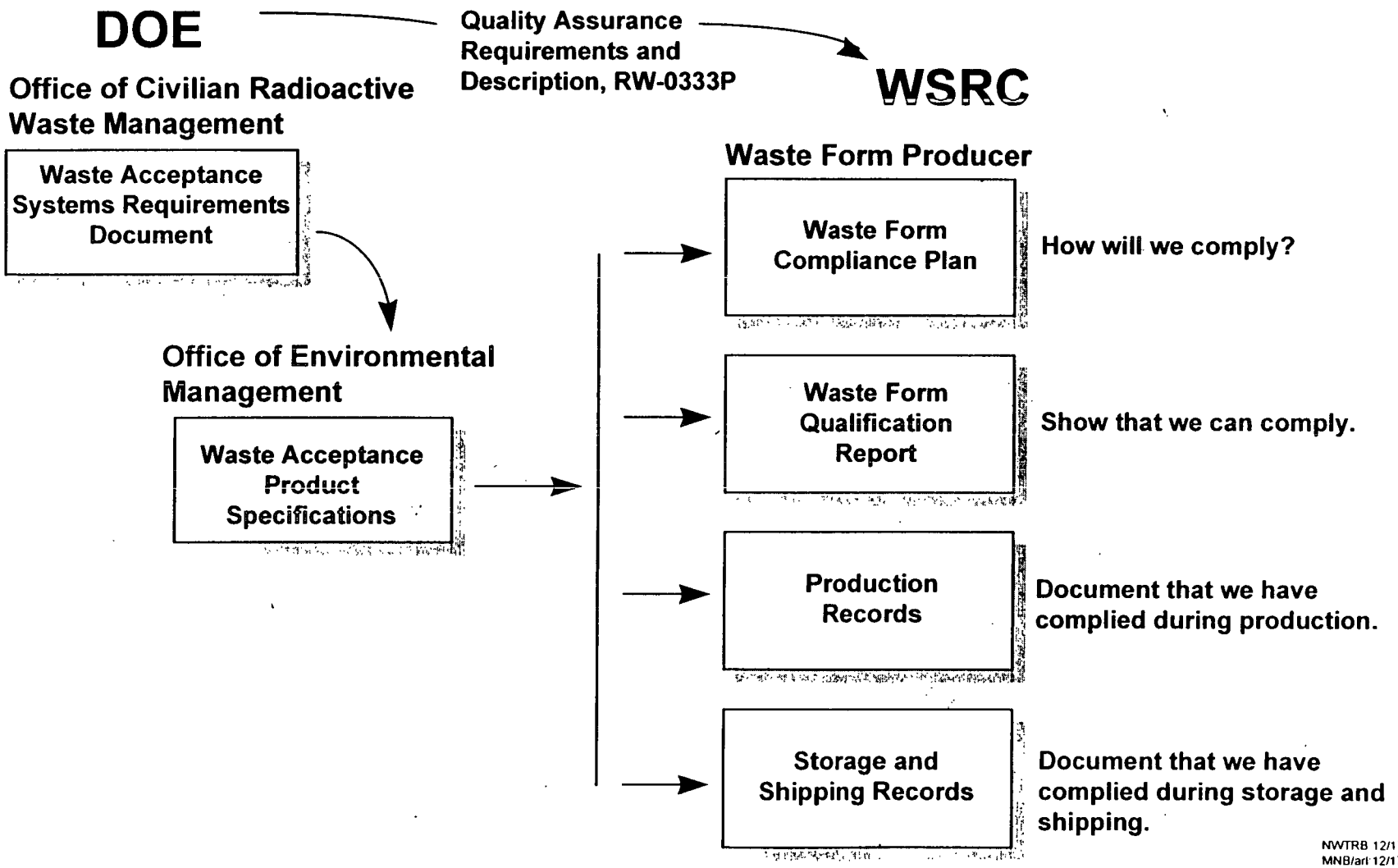

221-S Melt Cell
Feed Loop #2
Feed Loop #1
Thermowell
Melter
To Offgas System
CCTV
Feed Tubes
MONOPRAX
DOME Heaters
Pour Canisters
Cold Cap
Melt
Elevated Turn-table
Drain Valve
KS
ZIRMUL
Drain Canisters
Onsite Interim Canister Storage in 250-S Glass Waste Storage Building (GWSB)
Offsite Federal Repository for HLW
Water
Frit
Canister Decon Cell 221-S
Weld Test Cell 221-S
High pressure water and frit used in deconning, recycled to SMF to reuse in making the glass
Frit and Water

Glass Waste Storage Building Section



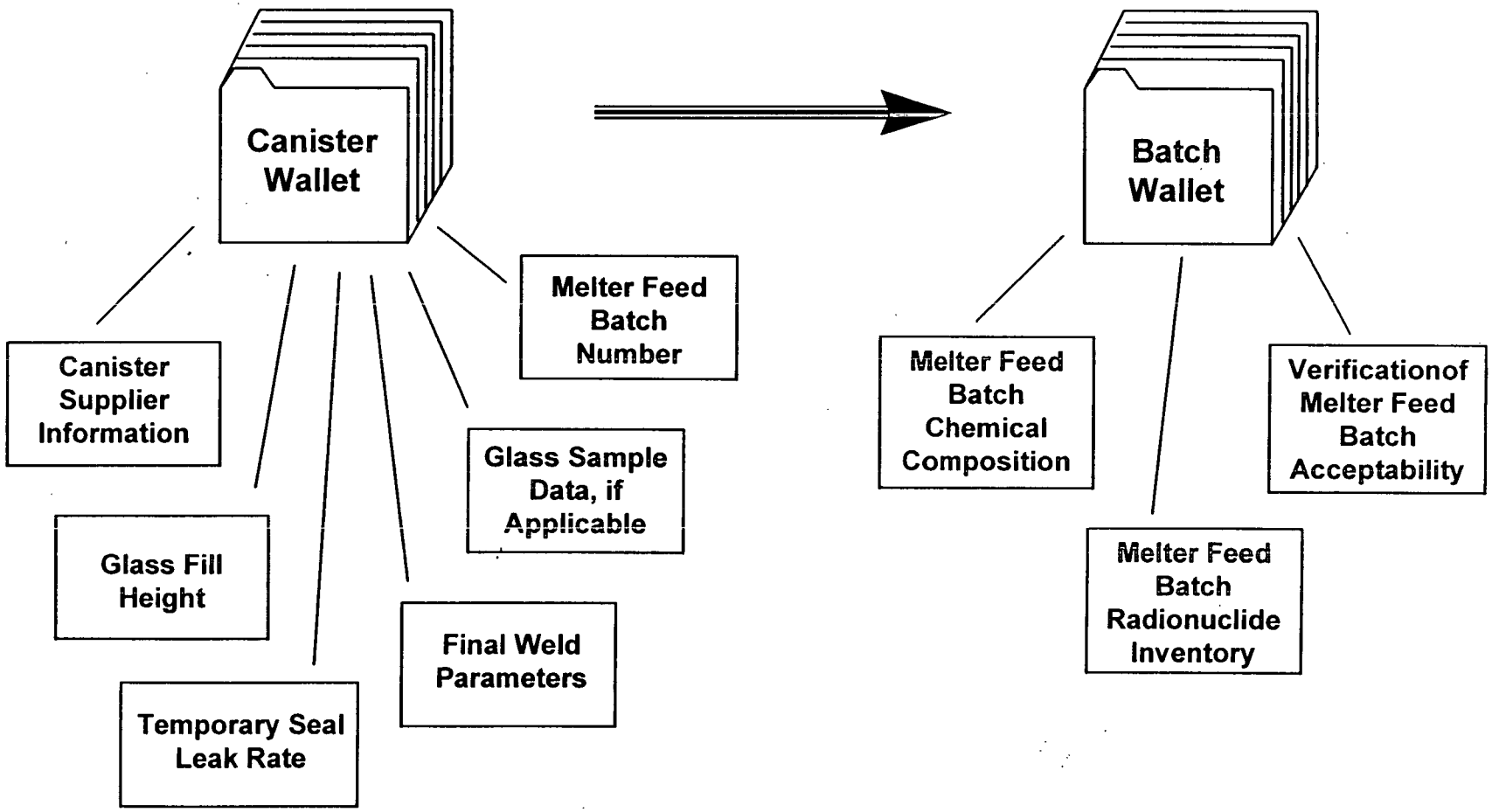
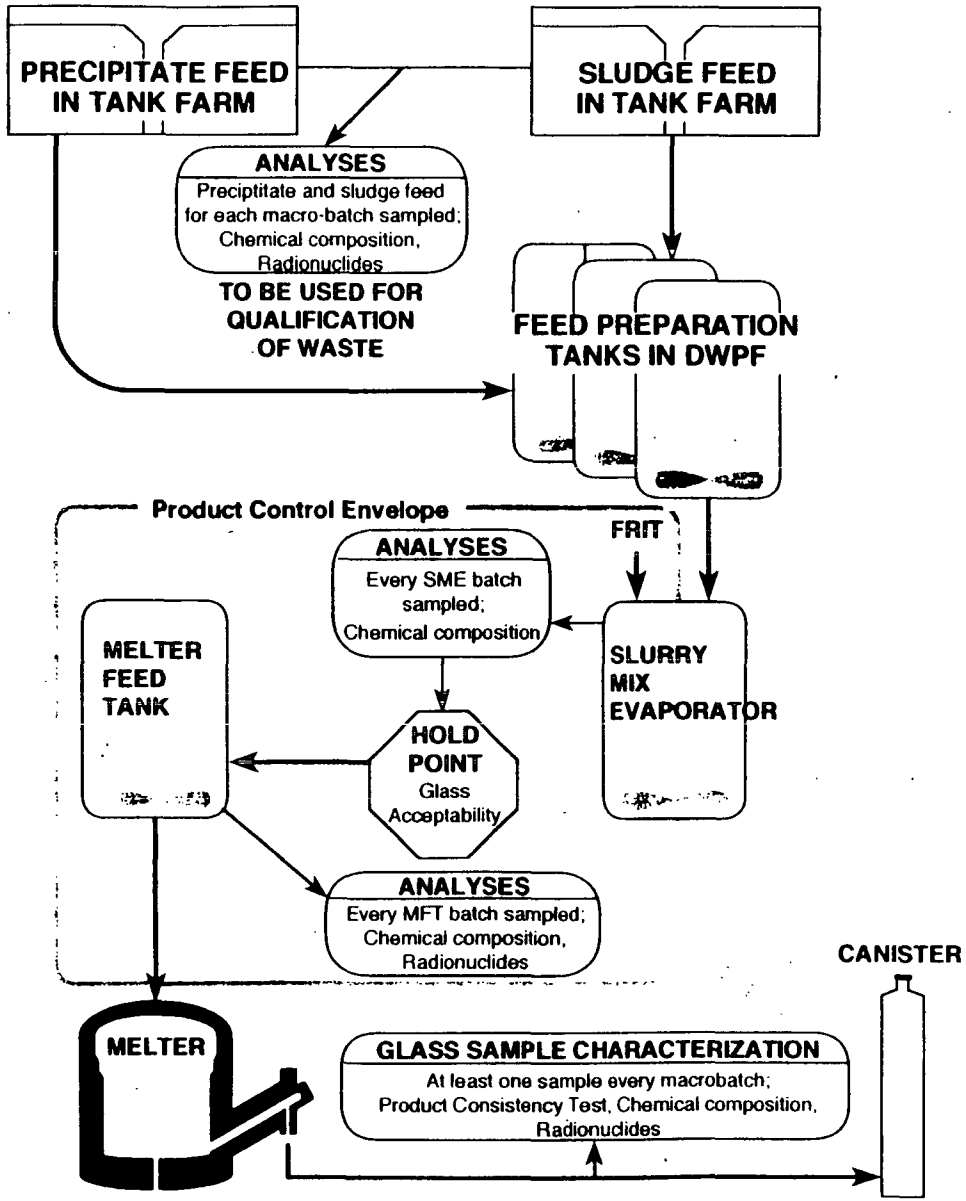

Westinghouse Savannah River Corp
Defense Waste Processing Facility
Canister Performance 04/28/96-09/30/98
Canisters Produced
450
400
350
300
250
200
150
100
50
0
28-Apr
20-May
11-Jun
3-Jul
25-Jul
16-Aug
7-Sep
29-Sep
22-Oct
13-Nov
5-Dec
27-Dec
18-Jan
9-Feb
3-Mar
25-Mar
16-Apr
8-May
30-May
21-Jun
13-Jul
4-Aug
26-Aug
17-Sep
9-Oct
31-Oct
22-Nov
14-Dec
5-Jan
27-Jan
18-Feb
12-Mar
3-Apr
25-Apr
17-May
8-Jun
30-Jun
22-Jul
13-Aug
4-Sep
26-Sep
60
210
267
410
DWPF Goal
Cumulative Actual
Goal

WASTE ACCEPTANCE PROCESS



NWTRB 12/17/97
MNB/arl 12/17/97

CANISTERED WASTE FORM RECORDS



DWPF Glass Product Control Program