

Pine Bluff Chemical Agent Disposal Facility

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Arkansas Department of Environmental
Quality

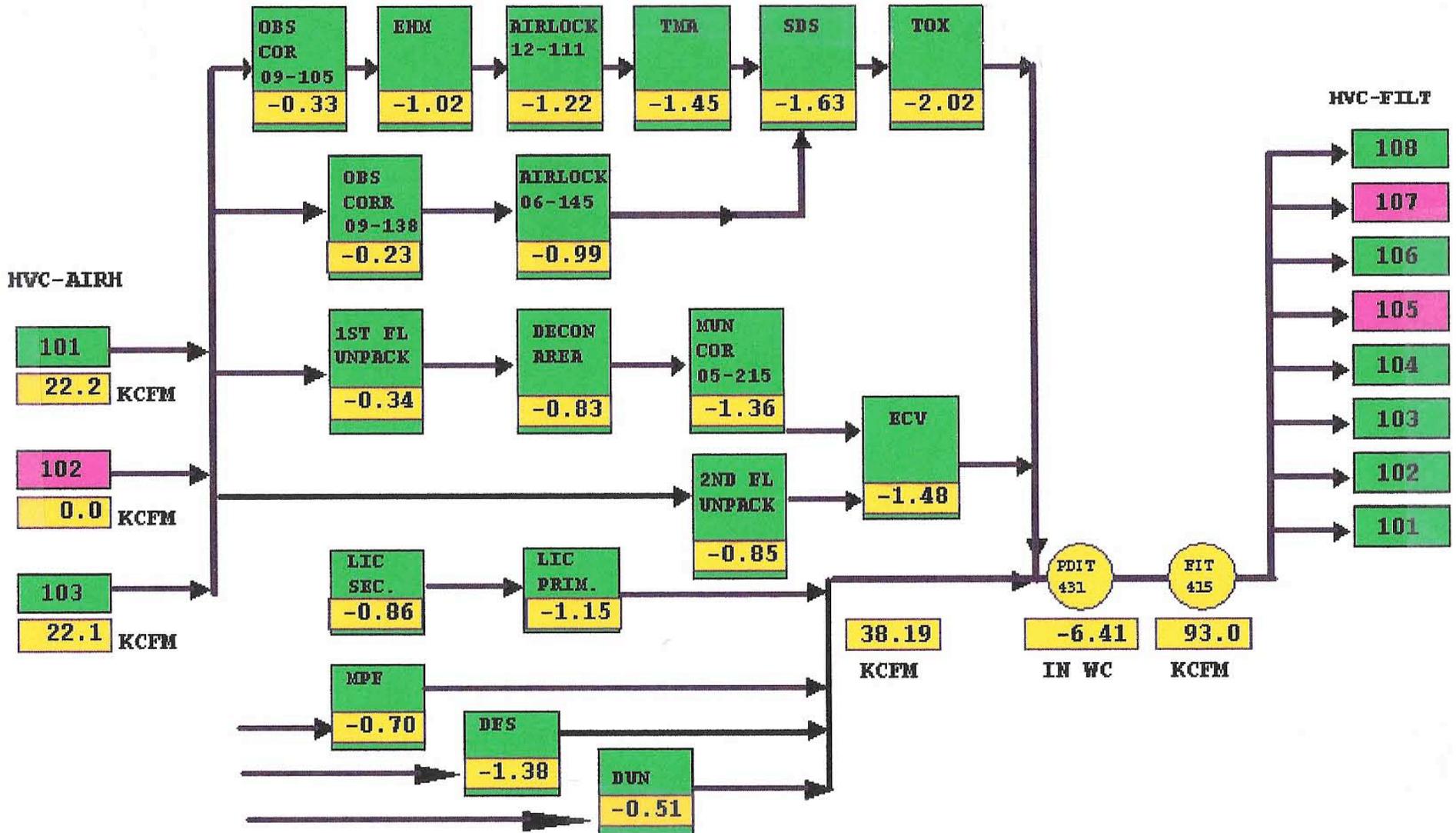
PBCDF Milestone Dates

- ◆ Chemical Weapons Stockpile began in 1945
- ◆ Facility Construction began in 1999
- ◆ Construction completed in 2002
- ◆ Testing & Training completed in 2005
- ◆ Disposal Operations began on March 26, 2005

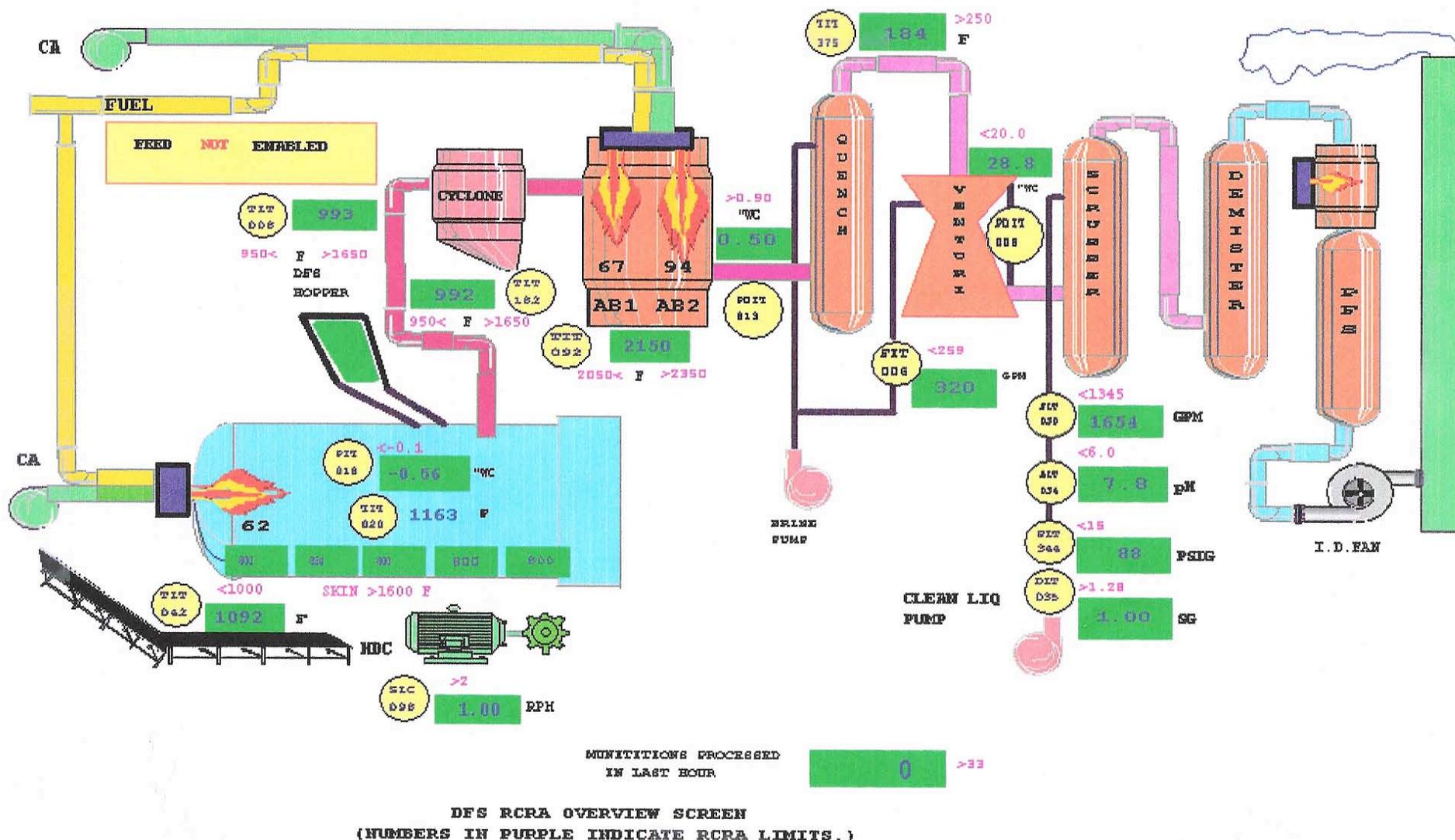
Compliance Evaluation Methods

- ◆ RS View
- ◆ Process Data Acquisition Recording (PDAR)
- ◆ Shift Reports
 - Plant Shift Manager (PSM)
 - Control Room Supervisor (CRS)
 - Environmental Shift Representative (ESR)
- ◆ Physical Plant Tours
- ◆ Closed Circuit Television (CCTV)
- ◆ Operations Log Books

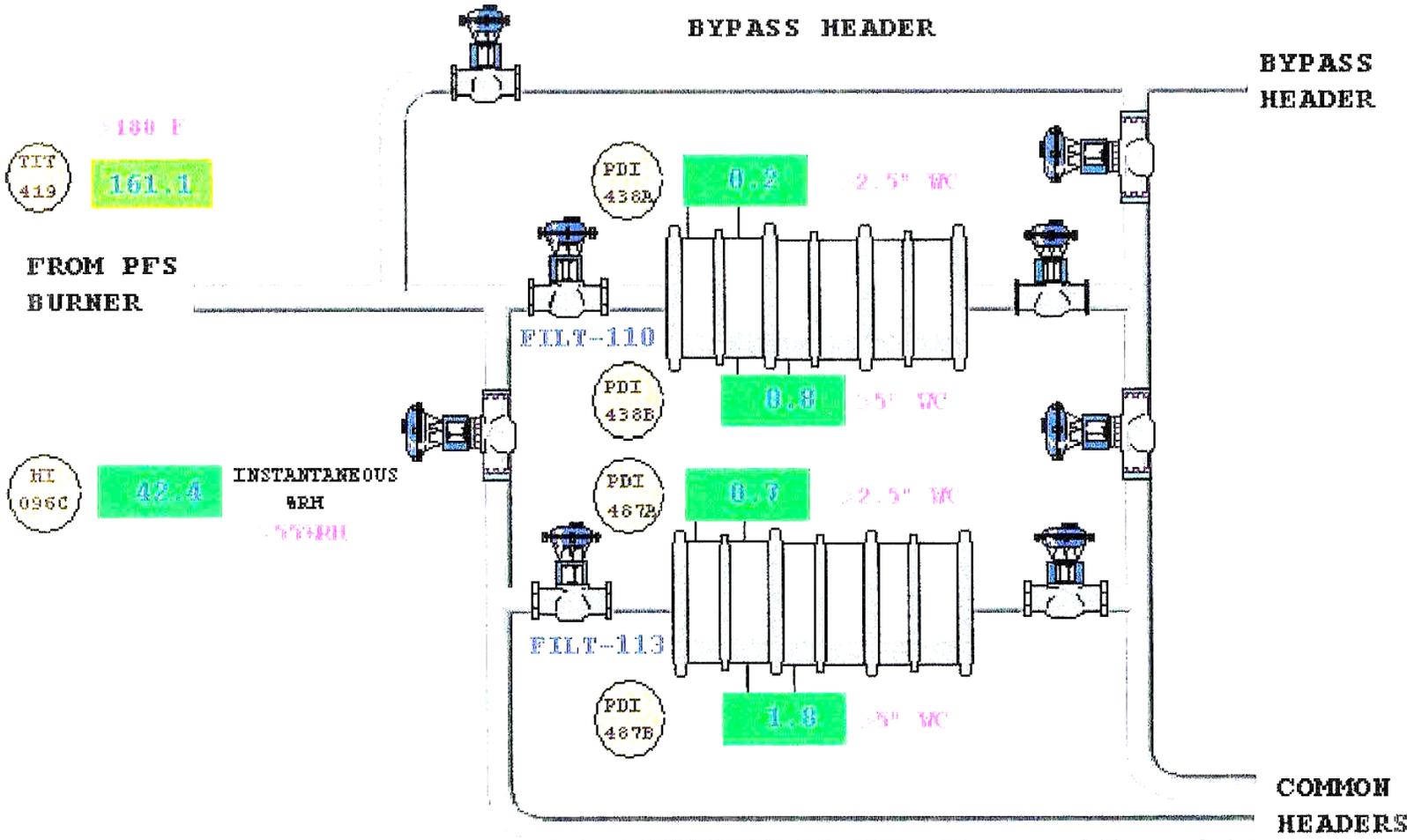
MDB HVAC



Deactivation Furnace (DFS)

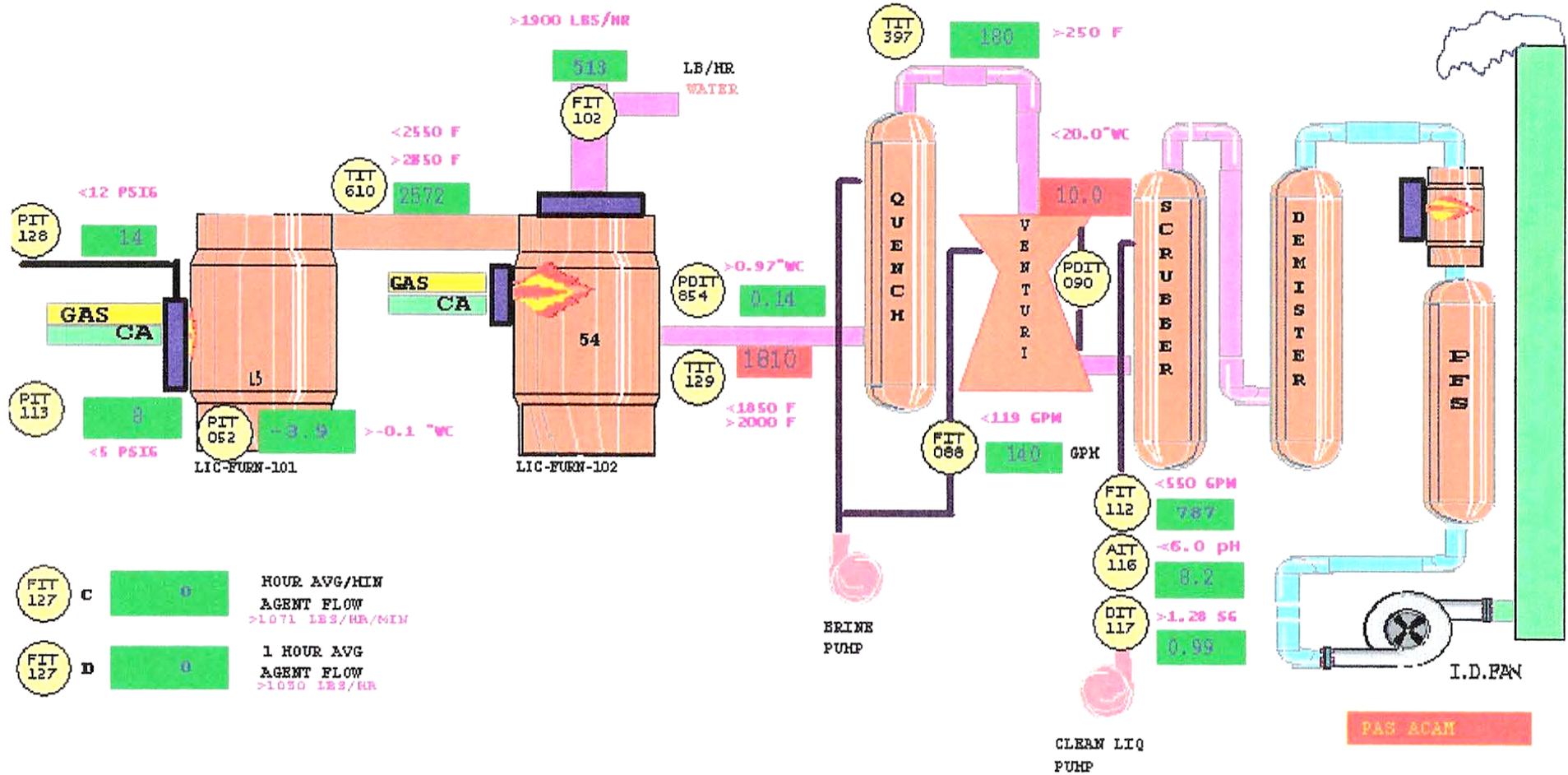


PAS Filter System (PFS)



MPF PFS FILTERS 110/113 RCRA OVERVIEW SCREEN
(NUMBERS IN PURPLE INDICATE RCRA LIMITS.)

Liquid Incinerator (LIC)



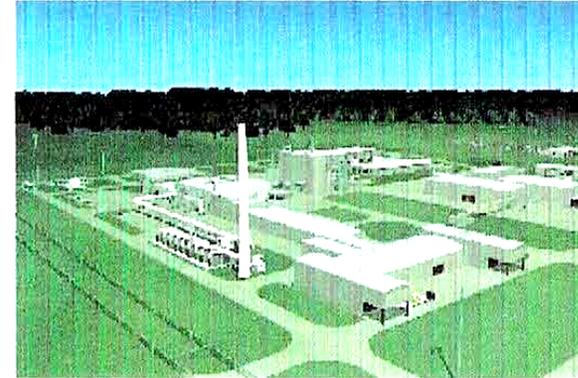
LIC RCRA OVERVIEW SCREEN
(NUMBERS IN PURPLE INDICATE RCRA LIMITS.)

ADEQ Multi-Tag Page



Looking Glass

| | |
|-------------------------|-----------------------|
| Start Time: | Stop Time: |
| 02/28/2007 11:27:23 ▾ | 02/28/2007 11:27:23 ▾ |
| Output : Grid (Plain) ▾ | Reset Time |



Alarms

```

03-ZQI-128/228 DFS FEED RT EXCEEDS AGENT LB/HR 7674 ALARM
04-LSH-255 SDS-PUMP-108 04-208 / ECV LEAK DETECT 6389 LEVEL HI
04-LSH-256 SDS-PUMP-109 04-208 / ECV LEAK DETECT 6393 LEVEL HI
04-LSH-262 SDS-PUMP-110 04-208 / ECV LEAK DETECT 6397 LEVEL HI
04-LSH-299 SDS-PUMP-108 04-208 ECV 6387 LEVEL HI
04-LSH-303 SDS-PUMP-109 04-208 / ECV 6391 LEVEL HI
04-LSH-307 SDS-PUMP-110 04-208 / ECV 6395 LEVEL HI
04-LSHH-299 SDS-PUMP-108 04-208 ECV 6388 LEVEL HI-HI
04-LSHH-303 SDS-PUMP-109 04-208 / ECV 6392 LEVEL HI-HI
04-LSHH-307 SDS-PUMP-110 04-208 / ECV 6396 LEVEL HI-HI
    
```

| | |
|----------------------|-----------------------------------|
| Alarms + Dev Actions | Alarms + Dev Actions + Op Actions |
|----------------------|-----------------------------------|

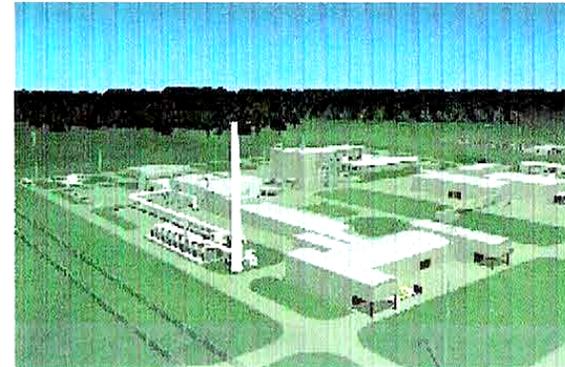
Select Colums:

| | | | | | | | | |
|-----------|-----|---|---|--|--|----------------------------------|----------------------------------|------------------|
| Timestamp | Tag | <input checked="" type="checkbox"/> Description | <input checked="" type="checkbox"/> Action | <input checked="" type="checkbox"/> Status | <input type="checkbox"/> Contr | <input type="checkbox"/> ID | <input type="checkbox"/> Address | Alarms |
| Timestamp | Tag | <input checked="" type="checkbox"/> Description | <input checked="" type="checkbox"/> Action | <input type="checkbox"/> Contr | <input type="checkbox"/> ID | <input type="checkbox"/> Address | | Device Actions |
| Timestamp | Tag | <input checked="" type="checkbox"/> Description | <input checked="" type="checkbox"/> OA Type | <input checked="" type="checkbox"/> Field3 | <input checked="" type="checkbox"/> Field4 | <input type="checkbox"/> Contr | | Operator Actions |



Looking Glass

| | |
|-------------------------|-----------------------|
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Analog

```

03-ZQI-128 AGENT FEED RATE ROHA
03-ZQI-228 ROCKET FEED RATE ROHA
11-LIT-20 SDS-TANK-101 LEVEL PV 0-105
11-LIT-30 SDS-TANK-102 LO LEVEL PV 0-105
11-LIT-64 SDS-TANK-103 LO LEVEL PV 0-105
11-LIT-9809 ACS-TANK-102 TANK LEVEL 0-114 IN AI/4-20 mA
11-LIT-9893 ACS-TANK-101 TANK LEVEL 0-96 INCHES AI/4-20 mA
114-PDIT-438A PFS-FILT-110 DFS PFS CARB PREFLTR 1 DP 0-6 INWC
114-PDIT-438B PFS-FILT-110 DFS PFS CARB HEPA 1 DP 0-6 INWC
114-PDIT-440A PFS-FILT-111 DFS PFS CARB PREFLTR 1 DP 0-6 INWC
    
```

Select Cols: * Note * Always query for < 4hr duration or query will likely time out.

| | | | | | |
|--|--|-------------------------------|---|--|--|
| Timestamp | Tag | Value | <input checked="" type="checkbox"/> TAGNAME | <input checked="" type="checkbox"/> PERMTXT2 | <input checked="" type="checkbox"/> PERMTXT3 |
| <input checked="" type="checkbox"/> PERMTXT4 | <input checked="" type="checkbox"/> PERMTXT5 | <input type="checkbox"/> CONR | <input type="checkbox"/> ADDRESS | 3sec Analog | Crosstab |

| | | | | |
|---|---|---|---------|----------|
| <input checked="" type="checkbox"/> Minimum | <input checked="" type="checkbox"/> Average | <input checked="" type="checkbox"/> Maximum | 1 MIN ▼ | Crosstab |
|---|---|---|---------|----------|

| | |
|----------|---|
| Snapshot | Snapshot pulls the Looking Glass Data stored on FEA and FEB for selected tags |
|----------|---|

Looking Glass

| RSM | | RKTA RKTB | | DFS | NOT FEEDING | LIC | NOT FEEDING | MPF | FEEDING | VOLTS | A | B | C |
|------------------|-------|-----------|--|----------------|-------------|---------------|-------------|----------------|---------|--------------|--------------|--------------|------------|
| TODAY | 0 | | | PRIM TEMP | 1021 | PRIM GAS TEMP | 2580 | Z1 TEMP | 1600 | P-101 | 4325 | 4311 | 4286 |
| YESTERDAY | 0 | 0 | | AFB TEMP | 2148 | PRIM REF TEMP | 2456 | Z2 TEMP | 1600 | P-102 | 4297 | 4307 | 4266 |
| ROCKET ROHA | | | | HDC UPR TEMP | 1157 | 2ND TEMP | 1841 | Z3 TEMP | 1600 | | | | |
| CMP TOTAL | 38941 | 42549 | | HDC LWR TEMP | 1071 | VENTURI DP | 8 | A/B TEMP | 1949 | AMPS | <u>A</u> | <u>B</u> | <u>C</u> |
| <hr/> | | | | HDC CURRENT | 1.09 | AFB CO | 1 | VENTURI DP | 30.1 | P-101 | 289 | 300 | 287 |
| RDS | | RKTA RKTB | | DFS ROOM TEMP | 111 | AGT INST | 11 | FEED ROHA | 0 | P-102 | 197 | 208 | 200 |
| TODAY | 1 | | | ID FAN 1ST STG | 211 | AGT ROHA | 0 | ID FAN 1ST STG | 95 | <hr/> | | | |
| YESTERDAY | 3 | 0 | | ID FAN 2ND STG | 215 | AGT TODAY | 0 | ID FAN 2ND STG | 121 | KW | <u>P-101</u> | <u>P-102</u> | |
| AVG AGT DRN | 90.5 | | | DEMISTER DP | 2.7 | AGT YDAY | 5427 | DEMISTER DP | 0 | | 1893 | 1277 | |
| <hr/> | | | | SPARE DMIS DP | 0 | DECON INST | 0 | AFB CO | 0 | <hr/> | | | |
| DFS | | | | VENTURI DP | 29.3 | | | | | TANKS | <u>101</u> | <u>102</u> | <u>103</u> |
| AGT YESTERDAY | 2.8 | | | AFB CO | 4 | | | | | SDS | 84.7" | 12.8" | 0" |
| AGT YESTERDAY | 2.8 | | | AGT FEED ROHA | 0 | | | | | ACS | 0" | 11.8" | |
| MISC YESTERDAY | 13 | | | RKT FEED ROHA | 0 | | | | | BRA | 6% | 50% | |
| BLADE COUNT RKTA | 1322 | | | KILN SPEED | OSC | | | | | NAH | 220" | 24" | 0" |
| BLADE COUNT RKTB | 686 | | | | | | | | | LAB | 0% | | |

Hide Settings Times 10pt Counts DFS LIC MPF Util

Toxic Area Training



DPE Suit Sealer





HAZARDOUS WASTE

DFS Ash – BULK GB M55 Munitions

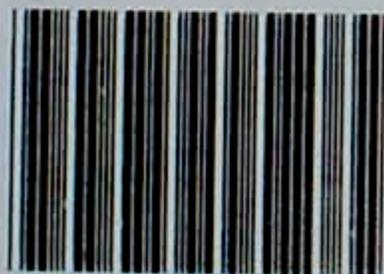
RQ, Hazardous waste, solid, n.o.s. (Contains Cadmium), 9, NA3077, PGIII ,D006 (E – RG:171), (pf:VC1303)

EPA CODES: D006

EPA ID NO: AR0213820707 Washington Group International/OSD OWM

ACCUM START DATE:

WEIGHT: 0 P



001943

ALT CONTAINER#: 425

001943

3 3:15 PM

Rocket Fire Video

Umatilla Chemical Agent Disposal
Facility (UMCDF)

