

## **AL POLLUTION PREVENTION QUARTERLY/ANNUAL REPORT**

The purpose of this report is to track and acknowledge the DOE Albuquerque Operations Office (AL) sites' considerable efforts to be conscientious environmental and fiscal stewards through their Pollution Prevention (P2) Program activities. This report is intended to provide a summary of AL P2 activities and to inform management of AL P2 progress, and issues.

Data for this report is derived from AL P2 activities and accomplishments submitted to the DOE Headquarters (HQ) Pollution Prevention Team (EM-22) P2 database for FY00 and for fourth quarter FY00. For additional information concerning specific site P2 accomplishment activities, please visit the EM-22 web site at <http://twilight.saic.com/wastemin>.

---

### **Program Summary**

---

- For all of FY00, AL sites reported a total of 68 new and 37 ongoing P2 projects. Excluding wastewater, a total of 40,187 cubic meters of waste was reduced through P2 projects for FY00. Also excluding wastewater, the waste type most reduced for FY00 was sanitary waste followed by hazardous waste, LLW, MLLW, and TRU, respectively. For fourth quarter FY00 only, AL sites reported a total of 31 new and 31 on-going P2 projects. Excluding wastewater, a total of 7,802 cubic meters of waste was reduced through P2 projects for the quarter. Also excluding wastewater, the waste type most reduced for the quarter was sanitary waste followed by hazardous waste and low-level waste, respectively.
- Total reported cleanup/stabilization (C&S) waste reduction for all of FY00 was 30,495 cubic meters. The AL EM FY00 commitment was to reduce 1,731 cubic meters of C&S waste. This number was based on estimated AL C&S waste generation of 17,310 cubic meters in FY00 and the secretarial goal calling for a 10% reduction of this waste through P2 activities. C&S waste reduction for fourth quarter FY00 totaled 7,804 cubic meters.

---

### **Program Issues and Upcoming Events**

---

- AL is currently working with HQ DP and AL sites to implement Environmental Management Systems (EMS) into site operations as required by Executive Order 13148. AL is working this issue with HQ EH and DP to strengthen the environmental "E" component of ISM. It is anticipated that the "E" component of ISM will require similar elements of already established EMSs such as ISO 14001. The Kansas City Plant and WIPP are already ISO 14001 certified. LANL and SNL are working on a gap analysis between their ISM system and ISO. AL will work with Pantex on the EMS issue following the first of the new year.
- A HQ EMS Roundtable meeting is scheduled for the morning of December 14. The purpose of the meeting is to brief Madelyn Creedon (invited) and other upper DP management on the value and benefits of implementing EMS in NNSA/DP operations. Rich Guimond, Motorola, will be presenting a non DOE corporate perspective of EMS. Representatives from Brookhaven National Laboratory, AL Ops Office (J. Arthur), and AL site managers will brief their perspective on EMS.

# AL Pollution Prevention Quarterly Report

*Fourth Quarter – FY 2000*

- P2 Performance Measures for FY01 site contracts were negotiated and completed for LANL and SNL. P2 Performance measures with the Plants (Kansas City and Pantex) are still being negotiated due to site M&O contractor issues.
- Site P2 Program reviews are planned for LANL on January 25, 2001; AL is working with SNL to establish their review date. You are encouraged to attend the reviews to hear what other sites are accomplishing.
- Although guidance has not yet been received from HQ, it is expected that HQ will require triennial site P2 plan updates in FY01.
- Planning for the DOE 2001 P2 Conference is moving forward. LANL has the lead on conference planning. The conference will be held in Albuquerque at the Crowne Plaza Pyramid Hotel June 18-22, 2001. The web site for the conference is <http://p2.werc.net>. Please visit the web site and mark your calendars to attend. The FY01 DOE P2 Awards will be presented at the conference on Wednesday, June 20, 2001.
- The AL End of Year Program Review is December 4 through December 6, 2000 in building 381. The P2 program presentation will be held the afternoon of December 4, 2000.
- Of the numerous P2 related data deadlines approaching, the more significant ones are:
  - a. DOE P2 Award/Closing the Circle Awards Nominations – Due December 18, 2000
  - b. RCRA Agency Summary Report (Affirmative Procurement) Data – Due December 31, 2000
  - c. Annual Report of Waste Generation and P2 Progress data – Due December 29, 2000 (This is now an FY Report)

## Annual and Fourth Quarter FY00 AL P2 Performance

Significant fourth quarter FY00 accomplishments include:

- Continued first, second, and third quarter accomplishments by all sites, exceed FY00 projections.
- Sandia National Laboratories-California (SNL-CA) accomplishments for FY00 were included in the fourth quarter FY00 EM-22 database. SNL-CA reported accomplishments in the areas of hazardous waste source reduction, LLW recycling and reuse, and sanitary waste segregation. One notable accomplishment was the segregating and recycling of 6,505 metric tons of concrete debris from building 913 deconstruction with resultant savings of \$189,623.
- KCP reduced future generation of 177 metric tons of TSCA waste by covering a former polychlorinated byphenyls usage area with steel and concrete instead of using fill; resultant savings were \$60,000.

Total waste reductions, excluding wastewater, for FY00 are summarized in the table below. Total reported cost savings, excluding wastewater, for FY00 was \$11,838,646.

FY00 Total Waste Reductions (M3) <sup>[1]</sup>			
Waste Type	Cleanup	Routine	Total
SAN	23,475.69	7,916.86	31,392.55
HAZ	6,421.25	1,530.37	7,951.62
LLW	1.80	767.56	769.36
MLLW	47.64	23.56	71.20
TRU		2.75	2.75
Total	29,946.38	10,241.10	40,187.48

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; all other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

# AL Pollution Prevention Quarterly Report

Fourth Quarter – FY 2000

New and ongoing AL P2 projects and associated waste reduction and cost savings for FY00 and for the fourth quarter of FY00 only are shown in the tables below. Wastewater totals are shown separately.

FY00 AL Pollution Prevention Project Summary (Excluding Wastewater)							
P2 Activity Type	Waste Type	Total Projects				Waste Reduction for FY (M <sup>3</sup> ) <sup>[1]</sup>	Savings for FY (\$)
		New Projects	Ongoing Projects	Cleanup/Stabilization	Routine Ops		
Source Reduction	HAZ	12	2	1	13	218.51	\$431,191
	LLW		1		1	7.95	\$8,000
	SAN		1		1	50.24	\$6,760
	TRU	2			2	2.75	\$159,610
<b>Total</b>		<b>14</b>	<b>4</b>	<b>1</b>	<b>17</b>	<b>279.45</b>	<b>\$605,560</b>
Segregation	HAZ	1			1	33.00	\$0
	LLW	1	1		2	371.70	\$588,215
	MLLW	5	1	4	2	61.61	\$1,393,700
	SAN	1		1		7,397.11	\$221,068
<b>Total</b>		<b>8</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>7,863.42</b>	<b>\$2,202,983</b>
Recycle/Reuse	HAZ	10	12	3	19	7,700.11	\$7,516,260
	LLW	4		1	3	389.71	\$615,758
	MLLW	2		2		9.59	\$103,500
	SAN	17	17	5	29	23,945.20	\$769,584
<b>Total</b>		<b>33</b>	<b>29</b>	<b>11</b>	<b>51</b>	<b>32,044.61</b>	<b>\$9,005,102</b>
Programmatic	Other	8			8	0.00	\$5,000
	SAN	2			2	0.00	\$0
<b>Total</b>		<b>10</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0.00</b>	<b>\$5,000</b>
<b>AL COMPLEX TOTAL</b>		<b>65</b>	<b>35</b>	<b>17</b>	<b>83</b>	<b>40,187.48</b>	<b>\$11,818,646</b>

FY00 AL Pollution Prevention Project Summary-Wastewater Only							
P2 Activity Type	Waste Type	Total Projects				Waste Reduction for FY (M <sup>3</sup> ) <sup>[1]</sup>	Savings for FY (\$)
		New Projects	Ongoing Projects	Cleanup/Stabilization	Routine Ops		
Source Reduction	WW-SAN	2	2	1	3	48,917.86	\$155,457
Recycle/Reuse	WW-HAZ	1		1		492.00	\$428,127

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; all other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

# AL Pollution Prevention Quarterly Report

Fourth Quarter – FY 2000

## Fourth Quarter FY00 AL Pollution Prevention Project Summary (Excluding Wastewater)

P2 Activity Type	Waste Type	Total Projects				Waste Reduction for Qtr (M <sup>3</sup> ) <sup>[1]</sup>	Savings for Qtr (\$)
		New Projects	Ongoing Projects	Cleanup/Stabilization	Routine Ops		
Source Reduction	HAZ	7	2	1	8	181.56	\$94,609
	SAN		1		1	12.56	\$1,690
<b>Total</b>		<b>7</b>	<b>3</b>	<b>1</b>	<b>9</b>	<b>194.12</b>	<b>\$96,299</b>
Segregation	LLW		1		1	8.20	\$10,250
	SAN	1		1		6,505.20	\$189,623
<b>Total</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>6,513.40</b>	<b>\$199,873</b>
Recycle/Reuse	HAZ	3	11	1	13	49.77	\$537,289
	LLW	2			2	26.85	\$39,288
	SAN	8	14	3	19	1,018.05	\$139,529
<b>Total</b>		<b>13</b>	<b>25</b>	<b>4</b>	<b>34</b>	<b>1,094.67</b>	<b>\$716,105</b>
Programmatic	Other	5			5	0.00	\$5,000
	SAN	2			2	0.00	\$0
<b>Total</b>		<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0.00</b>	<b>\$5,000</b>
<b>AL COMPLEX TOTAL</b>		<b>28</b>	<b>29</b>	<b>6</b>	<b>51</b>	<b>7,802.19</b>	<b>\$1,017,277</b>

## Fourth Quarter FY00 AL Pollution Prevention Project Summary-Wastewater Only

P2 Activity Type	Waste Type	Total Projects				Waste Reduction for Qtr (M <sup>3</sup> ) <sup>[1]</sup>	Savings for Qtr (\$)
		New Projects	Ongoing Projects	Cleanup/Stabilization	Routine Ops		
Source Reduction	WW-SAN	2	2	1	3	13,270.68	\$44,924
Recycle/Reuse	WW-HAZ	1		1		492.00	\$428,127

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; all other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

# AL Pollution Prevention Quarterly Report

Fourth Quarter – FY 2000

## Individual Site Accomplishments

The two tables below represent a roll-up summary of AL P2 accomplishments by site; the first table includes all of FY00, and the second table is for only the fourth quarter of FY00. Additional accomplishment information is available at the EM web site, at <http://twilight.saic.com/WasteMin/MainReports.htm>.

AL Site P2 Reported Performance - FY00			
Site	# of Reported Accomplishments	YTD Reductions <sup>[1]</sup>	YTD Savings (\$)
Grand Junction Office	8	1,779.85	\$0
Kansas City Plant	4	202.60	\$74,725
Los Alamos National Laboratory	37	9,606.11	\$10,580,958
Pantex Plant	20	55,368.68	\$1,156,551
Sandia National Laboratories-CA	11	7,407.31	\$237,710
Sandia National Laboratories-NM	13	15,100.67	\$349,270
WIPP	12	132.12	\$3,016
<b>Total</b>	<b>105</b>	<b>89,597.34</b>	<b>\$12,402,230</b>

AL Site P2 Reported Performance - Fourth Quarter FY00			
Site	# of Reported Accomplishments	Qtr Reductions <sup>[1]</sup>	Qtr Savings (\$)
Grand Junction Office	3	12.17	\$0
Kansas City Plant	1	177.00	\$60,000
Los Alamos National Laboratory	18	1,308.82	\$910,828
Pantex Plant	16	13,533.00	\$275,372
Sandia National Laboratories-CA	8	6,513.13	\$205,345
Sandia National Laboratories-NM	6	8.93	\$37,719
WIPP	10	11.82	\$1,065
<b>Total</b>	<b>62</b>	<b>21,564.87</b>	<b>\$1,490,328</b>

<sup>[1]</sup> Hazardous wastes and sanitary waste are measured in metric tons; other waste types are measured in cubic meters. Quantities indicated in this table assume that one metric ton is equivalent to one cubic meter.

**The AL P2 Program staff wish you all a happy and safe holiday season!!**