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# USPS LR-J-63

## FLATS DENSITY STUDY

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## **INTRODUCTION**

Library reference USPS LR-J-63 is a category 2 library reference sponsored by witness Miller (USPS-T-24) and is incorporated by reference into his testimony. This library reference updates the density tables and reject rates calculated in Docket No. MC95-1 USPS LR-MCR-3 and is filed as a library reference due to the size and nature of its contents. The density tables and reject rates are used in the flats cost models found in USPS LR-J-61.

## **I. PURPOSE**

The purpose of this study is to calculate the flats "density" tables and reject rates that are used to "flow" mail through the mail processing cost models. This study is an update of Docket No. MC95-1 USPS LR-MCR-3.

## **II. BACKGROUND**

Mail processing supervisors use sort plans to control mail flows. A "sort plan" is a software program that determines the bin number to which each mail piece should be sorted based on ZIP Code information. The term "density" refers to the percentage of mail that is sorted to a bin, or group of bins, representing a specific destination (e.g., a Sectional Center Facility - SCF). In the context of this study, "density" refers to the percentage of mail that is routed from a given operation to each succeeding operation. Density data are regularly analyzed using the Density Analysis System (DAS) to ensure that the sort plans are constructed as efficiently as possible.

## **III. STUDY PLAN**

A field study was conducted the week of April 1 - April 5, 2001, in order to minimize the disruption to the In-Plant Support personnel that collected the End-Of-Run (EOR) data. The instructions can be found on page 3 - 12.

### **A. SAMPLE UNIVERSE**

There are currently 269 Processing and Distribution Facilities (P&DF) and Processing and Distribution Centers (P&DC). Due to the fact that all flat sorting equipment will not be fully deployed and/or modified until Test Year 2003, all plants were not considered as candidates for this study.

### **B. SAMPLE DESIGN**

As an alternative, two plants from each of the ten areas were selected to participate in the study. As a requirement, each selected plant had to have all three types of flat sorting equipment: the Advanced Flat Sorting Machine 100 (AFSM100), the Flat Sorting Machine 881 (FSM881), and the Flat Sorting Machine 1000 (FSM1000). Therefore, only 92 plants were considered candidates for the study. Twenty sites were randomly selected and asked to participate. Only one plant did not respond to the request.

#### **IV. DATA COLLECTION**

A pilot study was conducted at one of the twenty selected sites. Instructions were then developed using the data from that study. These instructions were sent to each plant two weeks before the data collection period. Only FSM density data were collected. Manual density data were not collected. Each plant submitted Accounting Period (AP) 7 Fiscal Year (FY) 2001 EOR data for a specific list of operation numbers.

#### **V. DATA PROCESSING**

Data were retrieved from nineteen of the twenty plants asked to participate in the study. These data were aggregated together and were not stratified based on mail volume as they were all large plants. Density percentages were calculated for each operation using these aggregated data.

#### **VI. ASSUMPTIONS**

In order to develop these tables, several assumptions were used:

1. All firm direct holdout mail volumes were ignored, despite the fact that a small percentage of presort mail is destined for 5-digit unique firm ZIP Codes.
2. "Circular" mail volumes were ignored. This term refers to situations where mail volumes flow from one operation to another and then back to the previous operation. Overall, these volumes were relatively small. In order to avoid the problems associated with "circular references" in spreadsheets, these mail volumes were ignored.
3. In a very few cases, the mail volumes for entire sort plans were ignored because the operation numbers being used did not adhere to the Management Operating Data System (MODS) definition.

#### **VII. RESULTS**

The density table data and reject rate data can be found in the EXCEL file LRJ63.XLS. The density tables that are used in the flats models are on page 14 of this library reference. The reject rates are on page 15. The density tables did not change significantly from those used in the past. Overall, the AFSM100 offered a "finer-depth-of-sort" compared to either the FSM881 or FSM1000. This is not surprising given the fact that the AFSM100 has 120 bins, while the FSM881 and FSM1000 have 100 and 101, respectively.

**FLATS  
DENSITY STUDY  
INSTRUCTIONS**



March 19, 2001

SELECTED PLANT MANAGERS


SUBJECT: 2001 Flats Mail Flow Densities Study

Finance will be conducting a flats mail flow densities study for use in future rate case proceedings before the Postal Rate Commission. The last study was completed in 1994. The current data collection effort is intended to update the information from that investigation. The current study will require the participation of a representative from the In-Plant Support department that is familiar with both the End-of-Run (EOR) system and the Sort Plan System (SPS). This data will be used to develop cost estimates that will be used as a basis for establishing the "worksharing" discounts that are offered to mailers who presort and/or prebarcode their flats.

Your office has been selected to participate in this data collection effort. You are being asked to collect AP 7 FY 2001 volume printouts from the EOR system, as well as the most recent copy of the corresponding sort plans for a list of specified Flat Sorting Machine (FSM) automation and mechanization operation numbers. Please complete the attached study and send it to the specified address by Friday, April 5.

Your support is very important to the success of this survey. The data will not be used to evaluate you or any of your personnel. If you have any questions or require additional information, please contact Mike Miller (202) 268-3405 at Headquarters.

Thank you for your cooperation.

  
John E. Potter

Attachment

cc: Vice Presidents, Area Operations  
Managers, Finance, Area Operations  
District Managers, Selected Districts  
Managers, Finance, Selected Districts

**PLANT MANAGERS, SELECTED PLANTS**

Albany P&DC  
Austin P&DC  
Birmingham P&DC  
Carol Stream P&DC  
Cincinnati P&DC  
Cleveland P&DC  
Denver P&DC  
Detroit P&DC  
Greensboro P&DC  
Long Beach P&DC  
Mid-Island P&DC  
Milwaukee P&DC  
North Metro P&DC  
North Texas P&DC  
Providence P&DC  
San Francisco P&DC  
Seattle P&DC  
St. Louis P&DC  
Westchester P&DC

**2001 FLATS MAIL FLOW DENSITIES STUDY**

**Mike Miller  
(202) 268-3405**

**Special Studies  
Rate Case and Cost Development  
Headquarters Finance  
United States Postal Service**



**I. PURPOSE:**

The 2001 Flats Mail Flow Densities Study is an update to a study that was last conducted in 1994. A similar update was conducted for letters/cards in 1999. The 1994 flats study was conducted at a time when the FSM1000 and the AFSM100 had not been deployed to the field. At this time, however, the FSM1000 has been fully deployed, Phase I deployment of the AFSM100 has been completed, and Phase II deployment of the AFSM100 has begun. Therefore, this study is now being updated.

This density information will be used as an input to cost models that will be presented, in the form of testimony, before the Postal Rate Commission. The results from these cost models serve as the basis for the discounts that are offered to flats mailers who presort and/or prebarcode their mailings.

**II. GENERAL INSTRUCTIONS**

**A. Site Coordinator**

Upon receiving this package, please designate a site coordinator from the In-Plant Support group. The coordinator should be familiar with the End-Of-Run (EOR) system that is stored on your Local Area Network (LAN) and should also have an understanding of mail flows/sort plans.

The coordinator should complete the attached Site Coordinator Designation Form (Attachment I) and fax it to Mike Miller at (202) 268-3480.

**B. Study Overview**

This study involves the collection of AP 7 EOR data for non-incoming secondary Flat Sorting Machine (FSM) operations. Please conduct the study no earlier than March 26th, but no later than April 5th. The operation numbers that affect your specific plant should be listed in "Attachment II: Selected FSM Operations." These are the only operation numbers for which you need to provide density information. Site coordinators may use their discretion in submitting sort plans. For example, if some sort plans show up on the AP7 report, but had very little volume, it is probably not necessary to include them. In terms of time requirements, it took roughly four hours to complete a pilot study that was conducted at the Baltimore P&DC.

**III. AUTOMATION/MECHANIZATION DENSITIES**

Density information for flats automation and mechanization operations will be collected for operations that are performed on the AFSM100, the FSM881, and the FSM1000. In the End-Of-Run (EOR) system, print a copy of the AP 7 FY 2001 "AREA SUMMARY REPORT" for the FSM. (See Attachment III.) This document will be used to ensure that EOR data have been obtained for all applicable sort plans.

**A. AFSM100**

Print a copy of the AP 7 FY 2001 "END OF RUN BIN ANALYSIS REPORT" for each of the AFSM100 sort plans that have operation numbers that are found in Attachment II. (In many cases, multiple sort plans will be used for one operation number.) Staple a copy of the most recent version of each "SORT PROGRAM LISTING" to the front of the corresponding "END OF RUN BIN ANALYSIS REPORT." (See Attachment IV.)

**B. FSM881**

Print a copy of the AP 7 FY 2001 "END OR RUN BIN ANALYSIS REPORT" for each of the FSM881 sort plans that have operation numbers that are found in Attachment II. (In many cases, multiple sort plans will be used for one operation number.) Staple a copy of the most recent version of each "SORT PROGRAM LISTING" to the front of the corresponding "END OF RUN BIN ANALYSIS REPORT." (See Attachment IV.)

**C. FSM1000**

Print a copy of the AP 7 FY 2001 "END OR RUN BIN ANALYSIS REPORT" for each of the FSM1000 sort plans that have operation numbers that are found in Attachment II. (In many cases, multiple sort plans will be used for one operation number.) Staple a copy of the most recent version of each "SORT PROGRAM LISTING" to the front of the corresponding "END OF RUN BIN ANALYSIS REPORT." (See Attachment IV.)

**IV. MAILING ADDRESS**

After the data for all the requested AFSM100, FSM881, and FSM1000 sort plans have been collected, place the FSM "AREA SUMMARY REPORT" on top and fasten the data together using a paper clip or a binder clip. The data should be sent to the address below in the enclosed envelope by C.O.B. April 5<sup>th</sup>.

Mike Miller  
475 L'Enfant Plaza SW, Rm 1520  
Washington, DC 20260-5300

If you have any comments or questions regarding this study, please contact Mike Miller at (202) 268-3405.

**ATTACHMENT I:**

**SITE COORDINATOR DESIGNATION FORM**

**Site Coordinator Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Facility Name:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Telephone No.** \_\_\_\_\_

**Fax No.** \_\_\_\_\_

**PLEASE FAX WHEN COMPLETED TO:**

**MIKE MILLER**

**(202) 268-3480**

**ATTACHMENT II:**  
**SELECTED FSM OPERATIONS**

**A. AFSM100**

<u>Equipment</u>	<u>Op. No.</u>	<u>Description</u>
AFSM100	331	Outgoing Primary
AFSM100	332	Outgoing Secondary
AFSM100	333	Incoming Managed Mail Program (MMP)
AFSM100	334	Incoming Sectional Center Facility (SCF)
AFSM100	335	Incoming Primary

**B. FSM881**

<u>Equipment</u>	<u>Op. No.</u>	<u>Description</u>
FSM881	141	Outgoing Primary Key
FSM881	142	Outgoing Secondary Key
FSM881	143	Incoming MMP Key
FSM881	144	Incoming SCF Key
FSM881	145	Incoming Primary Key
FSM881	421	Outgoing Primary OCR
FSM881	422	Outgoing Secondary OCR
FSM881	423	Incoming MMP OCR
FSM881	424	Incoming SCF OCR
FSM881	425	Incoming Primary OCR
FSM881	961	Outgoing Primary BCR
FSM881	962	Outgoing Secondary BCR
FSM881	963	Incoming MMP BCR
FSM881	964	Incoming SCF BCR
FSM881	965	Incoming Primary BCR

**C. FSM1000**

<u>Equipment</u>	<u>Op. No.</u>	<u>Description</u>
FSM1000	441	Outgoing Primary Key
FSM1000	442	Outgoing Secondary Key
FSM1000	443	Incoming MMP Key
FSM1000	444	Incoming SCF Key
FSM1000	445	Incoming Primary Key
FSM1000	461	Outgoing Primary BCR
FSM1000	462	Outgoing Secondary BCR
FSM1000	463	Incoming MMP BCR
FSM1000	464	Incoming SCF BCR
FSM1000	465	Incoming Primary BCR

**ATTACHMENT III:**

**SAMPLE AREA SUMMARY REPORT**

**ATTACHMENT IV:**

**END OF RUN BIN ANALYSIS REPORTS**

**FLATS  
DENSITY STUDY  
RESULTS**

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## PIECE DISTRIBUTION MAIL FLOW DENSITY TABLES SUMMARY

<u>EQUIPMENT</u>	<u>OP NO</u>	<u>OP</u>	<u>OS</u>	<u>MMP</u>	<u>SCF</u>	<u>IP</u>	<u>IS</u>	<u>TOTAL</u>
AFSM100	331	0.00%	7.94%	46.85%	20.13%	10.78%	14.30%	100.00%
	332	0.00%	2.38%	93.55%	4.83%	1.60%	0.02%	100.00%
	333	0.00%	0.00%	4.97%	16.91%	5.88%	77.21%	100.00%
	334	0.00%	0.00%	0.00%	7.02%	6.70%	93.30%	100.00%
FSM881	141/421	0.00%	10.36%	39.85%	31.50%	11.03%	7.26%	100.00%
	142/422	0.00%	2.99%	89.95%	4.60%	5.45%	0.00%	100.00%
	143/423	0.00%	0.00%	6.77%	22.29%	7.36%	70.35%	100.00%
	144/424	0.00%	0.00%	0.00%	9.04%	1.93%	98.07%	100.00%
FSM1000	441/461	0.00%	11.54%	37.77%	23.18%	15.22%	12.30%	100.00%
	442/462	0.00%	6.80%	75.22%	10.37%	7.04%	7.37%	100.00%
	443/463	0.00%	0.00%	6.99%	20.31%	10.78%	68.91%	100.00%
	444/464	0.00%	0.00%	0.00%	8.75%	2.30%	97.70%	100.00%



### REJECTS SUMMARY

<u>EQUIPMENT</u>	<u>OP NO</u>	<u>VCS REJECTS</u>	<u>OTHER REJECTS</u>
AFSM100	331	1.40%	6.68%
	332	1.88%	6.10%
	333	2.56%	5.01%
	334	1.74%	5.16%
FSM1000	441/461	---	0.33%
	442/462	---	0.87%
	443/463	---	0.40%
	444/464	---	0.68%
FSM881	141/421	---	5.56%
KEYING/	141/422	---	2.88%
OCR/BCR	143/423	---	5.91%
	144/424	---	5.05%

VCS REJECTS/MISFACED

OPER NO.	PLANT NO.	VCS REJECT VOLUME	TOTAL VOLUME	REJECT PERCENT
331	1	11,828	2,182,031	0.55%
	1	14,025	1,985,885	0.71%
	2	27,833	1,987,030	1.42%
	2	14,145	949,270	1.49%
	2	5,011	242,548	2.07%
	3	63,481	5,648,961	1.14%
	3	1,388	55,778	2.49%
	4	28,720	2,351,328	1.14%
	5	7,334	1,271,288	0.58%
	6	1,974	188,833	1.04%
	8	24,155	1,280,089	1.82%
	7	28,454	1,838,175	1.80%
	7	33,747	1,490,452	2.31%
	7	869	121,114	0.80%
	7	3,179	185,850	1.70%
	7	5,477	359,822	1.53%
	7	5,756	298,407	2.14%
	8	7,702	723,861	1.07%
	8	13,187	738,141	1.79%
	8	4,838	212,778	2.27%
	8	8,432	340,349	2.48%
	9	4,075	218,546	1.88%
	10	0	0	—
	11	32,862	2,012,180	1.62%
	12	43,253	4,482,531	1.85%
	13	16,023	1,886,133	0.80%
	14	31,867	2,201,770	1.45%
	15	33,428	3,056,511	1.08%
	16	1,917	323,832	0.58%
	16	26,546	1,838,289	1.37%
	17	18,003	1,180,288	1.35%
	18	80,056	2,816,028	2.89%
	18	20,823	2,813,925	0.74%
	20	19,330	1,520,821	1.27%
		<b>847,821</b>	<b>46,828,822</b>	<b>1.80%</b>
332	1	0	0	—
	2	0	0	—
	3	9,187	343,836	2.68%
	4	0	0	—
	5	0	0	—
	8	332	25,298	1.31%
	7	798	85,403	0.93%
	8	6,270	174,464	3.59%
	8	7,772	258,073	3.04%
	10	0	0	—
	11	3,045	280,748	1.17%
	12	25,835	1,407,328	1.82%
	12	12,346	845,808	1.48%
	13	2,131	238,741	0.89%
	13	184	30,430	0.54%
	14	6,027	142,283	4.24%
	15	2,725	245,738	1.11%
	16	0	0	—
	17	381	19,249	2.03%
	18	0	0	—
	18	0	0	—
	20	0	0	—
		<b>78,851</b>	<b>4,078,298</b>	<b>1.89%</b>
333	1	0	0	—
	2	133,182	5,528,270	2.41%
	3	101,804	5,580,387	1.83%
	4	142,030	3,365,410	4.20%
	4	738	24,330	3.03%
	5	22,835	2,424,123	0.94%
	5	8,442	1,716,108	0.50%
	6	30,738	2,130,180	1.44%
	6	38,928	2,374,835	1.69%
	7	100,648	2,815,711	3.55%
	7	107,303	2,738,478	3.82%
	7	42,610	813,183	4.89%
	7	13,140	586,443	2.24%
	8	86,005	3,346,882	2.03%
	9	24,355	822,858	3.81%
	9	12,528	373,446	3.35%
	10	0	0	—
	11	82,348	1,738,855	4.74%
	12	216,287	8,088,004	3.55%
	12	32,138	1,938,315	1.68%
	13	0	0	—
	14	0	8,532	0.00%
	15	13,073	528,465	2.47%
	15	23,887	1,023,430	2.39%
	16	33,228	1,751,110	3.07%
	16	28,015	1,738,728	1.61%
	17	0	0	—
	18	78,881	2,807,882	2.71%
	18	33,173	2,314,419	1.43%
	19	51,057	2,388,888	2.14%
	20	27,873	1,133,223	2.47%
	20	10,440	778,534	1.34%
		<b>1,488,893</b>	<b>88,888,882</b>	<b>2.89%</b>
334	1	104,422	3,245,988	3.22%
	1	107,732	3,017,843	3.57%
	2	1,316	106,978	1.24%
	2	16,340	1,182,482	1.39%
	3	5,884	355,886	1.65%
	3	2,538	14,330	17.73%
	3	598	42,833	1.40%
	4	18,275	1,188,080	1.57%
	4	4,888	288,248	1.74%
	4	439	74,011	0.59%
	5	0	0	—
	8	1,478	87,248	1.69%
	7	10,387	881,145	1.20%
	7	2,853	188,854	1.40%
	7	2,484	158,335	1.58%
	7	18,387	875,714	1.89%
	7	3,864	352,879	1.12%
	7	3,825	294,427	1.30%
	7	312	32,083	0.97%
	7	8,580	593,588	1.49%
	8	174	25,561	0.88%
	8	8,868	505,039	1.76%
	8	26,820	1,789,048	1.51%
	9	888	19,084	5.17%
	9	782	57,748	1.35%
	9	5,105	345,043	1.48%
	10	0	0	—
	11	9,488	453,842	2.08%
	11	16,957	1,510,483	1.12%
	12	5,373	311,875	1.72%
	13	20,242	1,515,729	1.34%
	14	13,181	2,527,186	0.52%
	14	1,021	840,351	0.11%
	15	38,888	2,356,871	1.66%
	15	20,480	1,473,003	1.38%
	15	11,348	885,539	1.28%
	15	51,804	2,452,454	2.11%
	17	383	1,412,883	0.03%
	18	0	0	—
	19	10,024	617,034	1.62%
	19	17,531	885,008	1.82%
	20	682	51,287	1.33%
	20	182	20,483	0.84%
	20	443	16,473	2.68%
	20	137	13,705	1.00%
		<b>878,888</b>	<b>51,102,834</b>	<b>1.74%</b>

**AFSM100 OUTGOING PRIMARY**

OP NO	PLANT NO.	OP	QS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
331	1	0	105,268	1,337,723	381,498	180,445	0	2,014,934	115,047	2,162,031	5.32%
	1	0	118,888	1,211,088	352,516	110,446	0	1,792,936	123,621	1,965,986	6.28%
	2	0	100,039	923,530	342,997	318,897	185,917	1,872,380	47,709	1,967,039	2.43%
	2	0	50,068	422,446	169,143	158,551	94,332	894,540	36,965	949,270	3.89%
	2	0	0	146,341	59,904	28,138	0	232,383	4,908	242,549	2.02%
	3	0	261,660	1,665,319	485,843	784,130	214,524	3,411,476	175,034	3,649,991	4.80%
	3	0	0	42,372	2,487	5,190	0	50,049	3,239	55,778	5.81%
	4	0	0	1,232,003	515,224	234,867	37,140	2,019,234	280,765	2,351,326	11.94%
	5	0	40,813	774,619	147,822	124,572	34,722	1,122,348	108,057	1,237,739	8.73%
	6	0	21,575	123,433	5,739	21,391	8,420	180,558	7,218	189,833	3.80%
	6	0	193,980	521,597	24,832	227,422	186,017	1,153,848	66,430	1,260,099	5.27%
	7	0	58,847	818,799	292,146	167,258	194,184	1,531,244	60,695	1,638,175	3.71%
	7	0	48,704	682,571	287,029	155,591	174,494	1,348,389	56,467	1,460,452	3.87%
	7	0	0	99,457	10,935	4,256	2,391	117,039	2,451	121,114	2.02%
	7	0	0	160,831	10,381	4,228	1,264	176,504	5,686	186,660	3.15%
	7	0	0	311,685	17,583	8,676	1,658	339,602	11,238	358,922	3.13%
	7	0	0	228,588	11,922	8,925	1,305	250,740	7,676	266,407	2.88%
	8	0	28,215	266,646	161,862	94,236	63,666	614,647	13,423	659,111	14.00%
	8	0	20,653	238,454	207,045	105,987	65,416	637,555	65,386	738,141	11.57%
	8	0	9,669	84,720	74,011	24,267	12,252	184,919	22,991	212,778	10.81%
	9	0	95,288	19,504	41,614	48,583	95,843	300,832	24,228	340,349	7.12%
	9	0	61,300	13,120	32,937	37,605	45,083	180,045	20,002	218,548	9.15%
	10	0	0	0	0	0	0	0	0	0	—
	11	0	234,014	631,949	404,404	124,594	430,549	1,825,510	143,895	2,012,188	7.15%
	12	0	841,270	1,298,825	197,060	189,252	1,678,552	4,204,959	159,062	4,492,331	3.54%
	13	0	163,355	320,086	566,332	239,493	483,563	1,772,829	91,314	1,896,133	4.57%
	14	0	43,716	518,904	600,981	197,253	227,521	1,588,375	387,368	2,201,770	17.59%
	15	0	46,139	1,758,819	674,323	218,363	0	2,697,644	0	3,095,511	0.00%
	16	0	0	280,278	23,031	3,898	0	307,205	13,115	323,632	4.05%
	16	0	0	1,392,667	132,552	131,929	0	1,657,146	226,440	1,938,269	11.68%
	17	0	23,293	355,650	611,903	69,103	0	1,060,149	83,304	1,188,268	7.02%
	18	0	503,056	256,303	325,176	176,450	1,394,518	2,655,503	148,988	2,916,829	5.11%
	19	0	0	1,188,977	1,098,585	0	3,826	2,271,388	506,716	2,813,925	18.01%
	20	0	259,145	357,887	171,721	305,595	358,938	1,453,286	43,687	1,520,921	2.87%
	<b>TOTAL</b>	<b>0</b>	<b>3,328,755</b>	<b>19,645,191</b>	<b>8,441,558</b>	<b>4,618,889</b>	<b>5,996,105</b>	<b>41,930,198</b>	<b>3,083,343</b>	<b>46,167,093</b>	<b>6.68%</b>
		<b>0.00%</b>	<b>7.94%</b>	<b>46.85%</b>	<b>20.13%</b>	<b>10.78%</b>	<b>14.30%</b>	<b>100.00%</b>			

AFSM100 OUTGOING SECONDARY

OP NO	PLANT NO.	OP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
332	1	0	0	0	0	0	0	0	0	0	---
	2	0	0	0	0	0	0	0	0	0	---
	3	0	15,877	261,342	10,381	20,502	0	308,102	22,978	343,636	6.69%
	4	0	0	0	0	0	0	0	0	0	---
	5	0	0	0	0	0	0	0	0	0	---
	6	0	55	23,122	0	146	0	23,323	1,261	25,256	4.99%
	7	0	1,718	76,668	0	0	0	78,384	3,565	85,403	4.17%
	8	0	0	102,687	6,195	9,491	0	118,373	45,885	174,464	28.30%
	9	0	6,061	210,535	8,294	12,949	0	237,639	10,370	256,075	4.05%
	10	0	0	0	0	0	0	0	0	0	---
	11	0	0	237,872	7,253	2,094	713	247,932	9,812	260,789	3.76%
	12	0	0	1,264,843	23,942	0	0	1,288,785	77,049	1,407,328	5.47%
	12	0	0	735,106	75,415	0	0	810,521	20,877	845,906	2.47%
	13	0	13,031	187,945	17,837	4,489	0	223,302	12,494	239,741	5.21%
	13	0	0	19,993	785	0	0	20,758	9,508	30,430	31.25%
	14	0	18,708	90,632	13,042	8,140	0	128,522	7,494	142,293	5.27%
	15	0	34,049	163,963	8,555	0	0	206,567	25,953	245,726	10.56%
	16	0	0	0	0	0	0	0	0	0	---
	17	0	672	13,237	3,221	0	0	17,130	1,487	19,249	7.73%
	18	0	0	0	0	0	0	0	0	0	---
	19	0	0	0	0	0	0	0	0	0	---
	20	0	0	0	0	0	0	0	0	0	---
	<b>TOTAL</b>	<b>0</b>	<b>88,169</b>	<b>3,387,945</b>	<b>174,900</b>	<b>57,811</b>	<b>713</b>	<b>3,709,538</b>	<b>248,731</b>	<b>4,076,298</b>	<b>6.10%</b>
		<b>0.00%</b>	<b>2.38%</b>	<b>91.33%</b>	<b>4.71%</b>	<b>1.56%</b>	<b>0.02%</b>	<b>100.00%</b>			

**AFSM100 INCOMING MMP OPERATION**

OP NO	PLANT NO.	OP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
333	1	0	0	0	0	0	0	0	0	0	---
	2	0	0	383,489	746,865	70,033	3,581,235	4,781,602	188,952	5,526,270	3.02%
	3	0	0	328,347	570,058	818,378	3,535,618	5,252,399	206,164	5,560,367	3.71%
	4	0	0	309,447	602,812	203,757	1,829,088	2,944,904	307,746	3,395,410	9.08%
	4	0	0	2,330	6,601	1,455	11,433	21,819	1,773	24,330	7.29%
	5	0	0	112,566	0	0	2,139,442	2,252,008	150,080	2,424,123	6.19%
	5	0	0	44,609	0	0	1,574,055	1,618,664	90,002	1,718,108	5.24%
	6	0	0	74,787	252,450	112,576	1,599,167	2,038,980	80,461	2,130,180	2.84%
	6	0	0	53,511	211,540	90,868	1,902,677	2,258,598	78,290	2,374,935	3.21%
	7	0	0	142,824	718,685	99,975	1,457,308	2,418,790	96,272	2,615,711	3.68%
	7	0	0	141,927	823,137	110,837	1,640,454	2,516,355	114,818	2,738,476	4.19%
	7	0	0	50,403	223,384	12,014	580,392	868,193	25,153	913,163	2.75%
	7	0	0	3,018	144,733	10,223	397,971	555,945	17,360	586,445	2.96%
	8	0	0	0	868,958	511,019	1,549,565	2,929,542	349,415	3,348,962	10.44%
	9	0	0	37,475	83,503	49,518	428,227	576,723	21,559	622,659	3.48%
	9	0	0	23,055	37,265	27,330	254,540	342,190	18,725	373,448	5.01%
	10	0	0	0	0	0	0	0	0	0	---
	11	0	0	0	298,814	106,278	1,172,085	1,577,177	79,330	1,738,855	4.58%
	12	0	0	383,816	1,015,729	0	4,264,697	5,684,242	208,495	6,089,004	3.42%
	12	0	0	82,208	294,216	0	1,511,721	1,888,143	39,034	1,939,315	2.01%
	13	0	0	0	0	0	0	0	0	0	---
	14	0	0	405	1,051	41	3,493	4,990	1,542	6,532	23.81%
	15	0	0	39,814	78,009	65,723	272,459	454,005	0	528,485	0.00%
	15	0	0	74,018	162,222	91,386	575,988	903,594	0	1,023,430	0.00%
	16	0	0	0	313,523	41,391	1,177,474	1,532,388	145,496	1,731,110	8.40%
	16	0	0	41,876	223,848	35,789	1,349,203	1,650,718	59,997	1,738,728	3.45%
	17	0	0	0	0	0	0	0	0	0	---
	18	0	0	174,489	494,671	213,444	1,785,340	2,687,924	161,028	2,907,882	5.54%
	18	0	0	91,672	248,831	72,246	1,774,042	2,186,791	94,440	2,314,419	4.08%
	19	0	0	0	281,250	12,433	1,672,078	1,945,761	390,080	2,386,898	18.34%
	20	0	0	57,604	104,110	145,689	761,134	1,068,537	36,713	1,133,223	3.24%
	20	0	0	30,603	57,455	93,342	564,821	748,221	22,873	779,534	2.93%
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>2,664,251</b>	<b>8,621,520</b>	<b>2,995,745</b>	<b>39,363,883</b>	<b>53,645,199</b>	<b>2,941,798</b>	<b>58,688,002</b>	<b>5.01%</b>
		<b>0.00%</b>	<b>0.00%</b>	<b>4.97%</b>	<b>16.07%</b>	<b>5.58%</b>	<b>73.38%</b>	<b>100.00%</b>			

AFSM100 INCOMING SCF

OP NO	PLANT NO	QP	QS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
334	7	0	0	0	214,345	264,493	2,501,276	2,980,114	160,538	3,245,989	4.95%
	1	0	0	0	457,526	0	2,178,873	2,634,399	200,077	3,017,843	6.63%
	2	0	0	0	3,328	9,016	90,499	102,803	1,857	105,978	1.75%
	2	0	0	0	23,589	62,273	1,053,058	1,138,920	27,182	1,182,482	2.30%
	3	0	0	0	60	0	335,854	335,914	13,888	355,686	3.90%
	3	0	0	0	792	0	10,180	10,972	809	14,320	5.85%
	3	0	0	0	4	0	40,244	40,248	1,988	42,833	4.64%
	4	0	0	0	54,448	39,282	961,681	1,055,391	92,389	1,166,080	7.92%
	4	0	0	0	11,825	32,847	216,876	281,348	19,930	286,248	6.96%
	4	0	0	0	2,960	8,479	56,881	68,320	5,252	74,011	7.10%
	5	0	0	0	0	0	0	0	0	0	—
	6	0	0	0	4,989	0	77,524	82,513	3,191	87,249	3.66%
	7	0	0	0	31,896	1,671	811,972	845,539	25,019	881,145	2.84%
	7	0	0	0	3,910	6,192	169,073	179,175	5,239	189,854	2.76%
	7	0	0	0	2,189	309	148,701	151,199	4,048	159,335	2.54%
	7	0	0	0	14,744	2,578	888,587	905,907	35,761	973,714	3.67%
	7	0	0	0	8,194	514	327,967	336,675	7,949	352,979	2.25%
	7	0	0	0	7,828	938	269,598	278,382	6,954	294,427	2.36%
	7	0	0	0	527	11	29,842	30,380	1,150	32,063	3.59%
	7	0	0	0	10,323	801	551,709	562,833	13,593	593,588	2.29%
	8	0	0	0	4,945	0	15,215	20,160	4,695	25,581	18.35%
	8	0	0	0	66,140	94,657	276,444	439,241	56,929	505,039	11.27%
	8	0	0	0	233,982	417,958	943,150	1,595,090	147,330	1,769,048	8.33%
	9	0	0	0	2,881	1,134	13,115	17,130	948	19,064	4.97%
	9	0	0	0	6,292	2,433	47,422	56,147	819	57,748	1.42%
	9	0	0	0	49,058	15,559	261,665	326,282	13,648	345,043	3.96%
	10	0	0	0	0	0	0	0	0	0	—
	11	0	0	0	0	127,534	300,273	427,807	26,135	453,942	5.76%
	11	0	0	0	0	398,271	1,054,584	1,452,855	57,638	1,510,493	3.82%
	12	0	0	0	11,391	0	273,078	284,469	9,892	311,875	3.17%
	13	0	0	0	2,378	36,082	1,359,634	1,398,094	86,297	1,515,729	5.69%
	14	0	0	0	31,169	2,684	2,141,518	2,175,369	280,205	2,527,168	11.09%
	14	0	0	0	14,729	1,422	877,801	893,952	221,243	940,951	23.51%
	15	0	0	0	141,886	60,888	1,871,620	2,074,394	0	2,356,871	0.00%
	15	0	0	0	84,442	110,279	1,172,597	1,367,318	0	1,473,033	0.00%
	15	0	0	0	81,405	12,883	546,153	640,441	0	685,529	0.00%
	16	0	0	0	461,825	92,674	1,440,217	1,994,716	0	2,452,454	0.00%
	17	0	0	0	33,917	3,788	1,250,020	1,287,723	0	1,412,963	0.00%
	18	0	0	0	0	0	0	0	0	0	—
	19	0	0	0	0	4,732	510,857	515,589	101,445	617,034	16.44%
	19	0	0	0	5,140	38,066	854,032	897,238	67,788	965,006	7.02%
	20	0	0	0	479	3,376	44,966	48,821	1,764	51,267	3.44%
	20	0	0	0	238	638	16,494	17,368	2,923	20,483	14.27%
	20	0	0	0	238	240	14,974	15,452	578	16,473	3.51%
	20	0	0	0	146	60	12,629	13,135	434	13,706	3.17%
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,087,956</b>	<b>1,854,736</b>	<b>25,817,111</b>	<b>29,759,803</b>	<b>1,707,483</b>	<b>33,102,324</b>	<b>5.16%</b>
		<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>7.02%</b>	<b>6.23%</b>	<b>86.76%</b>	<b>100.00%</b>			

FSM881 OUTGOING PRIMARY KEY/OCR/BCR

OP NO	PLANT NO.	OP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
141/421	1	0	0	139,193	48,745	9,006	0	196,944	24,033	220,986	10.88%
	1	0	0	27,097	9,323	2,018	0	38,438	4,184	42,900	9.75%
	1	0	0	79,274	31,212	6,109	0	116,595	19,409	136,035	14.27%
	2	0	11,041	32,908	17,739	15,068	10,881	87,834	20,473	108,514	18.87%
	3	0	13,293	22,223	8,439	8,862	3,057	55,874	17,020	72,900	23.35%
	4	0	61,220	321,812	180,090	66,714	29,481	659,317	413	674,629	0.06%
	4	0	52,204	281,511	165,591	55,703	1,703	558,712	267	567,761	0.05%
	4	0	12,959	82,401	54,478	15,059	9,993	174,890	50,359	225,267	22.36%
	4	0	11,812	59,710	40,968	11,814	8,523	132,627	46,149	178,777	25.81%
	5	0	0	0	0	0	0	0	0	0	---
	6	0	100,565	440,345	281,715	160,061	168,729	1,151,415	499	1,171,193	0.04%
	6	0	7,054	16,713	7,665	2,968	6,086	40,486	7,955	48,629	16.29%
	6	0	4,470	13,253	5,827	1,755	4,000	29,305	6,694	36,198	18.49%
	6	0	0	9,160	2,680	2,398	4,152	18,390	10,489	33,737	31.09%
	6	0	21,142	112,990	30,795	20,068	41,822	226,817	115,752	372,364	31.09%
	7	0	0	0	0	0	0	0	0	0	---
	8	0	53,467	120,917	77,704	47,623	29,167	328,878	387	331,611	0.12%
	8	0	5,204	10,185	6,181	3,832	1,589	26,971	6,295	33,362	18.87%
	8	0	1,656	5,474	930	756	193	9,009	930	9,939	9.36%
	9	0	0	0	0	0	0	0	0	0	---
	10	0	0	0	0	0	0	0	0	0	---
	11	0	0	0	0	0	0	0	0	0	---
	12	0	0	0	0	0	0	0	0	0	---
	13	0	0	0	0	0	0	0	0	0	---
	14	0	10,693	25,718	31,138	8,687	5,767	82,003	20,978	112,668	18.62%
	14	0	172,423	374,752	618,285	196,467	115,383	1,477,310	22,174	1,619,360	1.37%
	15	0	18,805	33,808	24,677	9,074	0	86,364	20,841	107,439	19.40%
	15	0	80,921	195,794	200,701	68,772	0	546,188	1,741	558,726	0.31%
	16	0	0	0	0	0	0	0	0	0	---
	17	0	0	0	0	0	0	0	0	0	---
	18	0	1,659	1,312	1,277	2,608	9,840	16,696	653	17,747	3.68%
	19	0	31,679	170,780	182,420	0	13,160	398,039	394	398,433	0.10%
	19	0	4,235	25,236	21,754	0	1,682	52,907	19	52,926	0.04%
	19	0	0	0	0	0	0	0	0	0	---
	20	0	3,136	12,417	16,346	7,321	10,336	49,556	85	49,641	0.17%
	20	0	152	881	334	523	604	2,494	801	3,295	24.31%
	20	0	572	1,315	1,384	856	895	5,022	1,030	6,052	17.02%
	<b>TOTAL</b>	<b>0</b>	<b>680,162</b>	<b>2,617,179</b>	<b>2,068,375</b>	<b>724,122</b>	<b>477,043</b>	<b>6,566,881</b>	<b>400,024</b>	<b>7,191,287</b>	<b>5.56%</b>
		<b>0.00%</b>	<b>10.36%</b>	<b>39.85%</b>	<b>31.50%</b>	<b>11.03%</b>	<b>7.26%</b>	<b>100.00%</b>			

FSM881 OUTGOING SECONDARY KEY/OCR/BCR

OP NO	PLANT NO.	QP	QS	MMP	SCE	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
142/422	1	0	0	4,471	2,695	658	0	7,824	1,850	9,710	19.05%
	1	0	0	6,282	4,661	1,267	0	12,210	3,087	15,373	20.08%
	2	0	0	0	0	0	0	0	0	0	---
	3	0	0	0	0	0	0	0	0	0	---
	4	0	9,375	84,893	3,274	1,741	0	98,283	23	107,265	0.02%
	4	0	1,258	12,531	284	352	0	14,425	11	15,088	0.07%
	4	0	0	0	0	0	0	0	0	0	---
	5	0	0	0	0	0	0	0	0	0	---
	6	0	0	11,419	11,817	0	0	23,236	0	23,586	0.00%
	6	0	0	0	0	0	0	0	0	0	---
	7	0	0	0	0	0	0	0	0	0	---
	8	0	1,213	24,432	2,604	1,354	0	29,603	31	31,667	0.10%
	8	0	214	6,219	413	241	0	7,087	2,471	9,806	25.20%
	9	0	368	2,403	149	73	0	2,991	1	3,241	0.03%
	9	0	182	2,757	17	51	0	3,007	315	4,075	7.73%
	10	0	0	0	0	0	0	0	0	0	---
	11	0	0	0	0	0	0	0	0	0	---
	12	0	0	0	0	0	0	0	0	0	---
	13	0	0	0	0	0	0	0	0	0	---
	14	0	5,738	176,495	7,321	26,816	0	216,370	821	218,080	0.38%
	15	0	1,201	23,537	1,991	308	0	27,037	3,392	33,735	10.05%
	15	0	6,968	97,380	6,079	2,230	0	112,657	257	113,438	0.23%
	16	0	0	0	0	0	0	0	0	0	---
	17	0	0	0	0	0	0	0	0	0	---
	18	0	0	330,088	518	13,346	0	343,950	839	353,864	0.24%
	19	0	0	0	0	0	0	0	0	0	---
	20	0	1,182	24,122	66	936	0	26,306	8,616	34,965	24.84%
	20	0	812	24,929	658	1,017	0	27,416	7,376	34,822	21.18%
	TOTAL	0	28,509	831,958	42,545	50,390	0	953,402	29,090	1,008,715	2.88%
		0.00%	2.99%	87.26%	4.46%	5.29%	0.00%	100.00%			



FSM881 INCOMING MMP KEY/OCR/BCR

OP NO	PLANT NO.	QP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
143/423	1	0	0	0	0	0	0	0	0	0	---
	2	0	0	8,354	19,325	2,776	84,040	114,495	6	147,312	0.00%
	2	0	0	34,540	143,555	0	292,847	470,942	80,804	592,753	13.63%
	3	0	0	39,088	46,284	109,430	220,074	414,878	93,925	508,801	18.46%
	3	0	0	4,710	6,818	24,238	35,033	70,799	3,234	74,033	4.37%
	4	0	0	106,689	175,932	77,994	342,853	703,248	1,463	704,711	0.21%
	4	0	0	97,271	183,243	31,492	303,379	615,385	355	618,968	0.06%
	4	0	0	48,025	113,186	15,834	147,741	324,766	192	325,196	0.06%
	4	0	0	50,042	103,095	56,344	158,842	366,323	97	366,420	0.03%
	4	0	0	36,314	59,744	35,064	163,221	294,343	75,278	369,619	20.37%
	4	0	0	2,852	7,740	3,562	17,949	32,103	6,236	38,339	16.27%
	4	0	0	28,537	61,332	28,355	127,659	245,883	70,555	316,438	22.30%
	4	0	0	2,588	7,593	2,904	12,592	25,877	6,950	32,627	21.30%
	5	0	0	15,012	0	7,868	539,512	562,392	7,553	569,945	1.33%
	5	0	0	444	0	471	39,351	40,266	378	40,642	0.93%
	5	0	0	14,458	108,002	11,623	418,053	552,136	132,749	684,885	19.38%
	5	0	0	1,456	10,718	911	59,534	72,619	7,178	79,797	9.00%
	5	0	0	935	9,692	852	31,000	42,479	9,683	52,162	18.56%
	6	0	0	142,434	196,417	182,987	988,899	1,510,737	0	1,551,152	0.00%
	6	0	0	603	217	0	21,881	22,701	0	23,184	0.00%
	6	0	0	37,917	116,939	90,519	491,871	737,246	162,341	911,845	17.80%
	6	0	0	9,152	16,556	14,958	66,382	127,048	25,409	154,330	16.46%
	6	0	0	1,479	6,734	3,135	17,422	28,770	5,144	34,348	14.98%
	6	0	0	7,387	23,873	16,909	64,650	112,819	27,280	142,267	19.18%
	7	0	0	0	0	0	0	0	0	0	---
	8	0	0	0	0	0	0	0	0	0	---
	9	0	0	0	0	0	0	0	0	0	---
	10	0	0	0	0	0	0	0	0	0	---
	11	0	0	0	0	0	0	0	0	0	---
	12	0	0	0	0	0	0	0	0	0	---
	13	0	0	0	0	0	0	0	0	0	---
	14	0	0	0	374,200	34,328	1,567,142	1,975,670	182	2,039,472	0.01%
	14	0	0	0	421,113	46,786	608,627	1,076,526	106	1,188,936	0.01%
	15	0	0	8,494	24,722	6,979	45,931	86,126	19,078	105,202	18.13%
	15	0	0	22,459	47,990	19,092	59,582	149,123	21,611	170,735	12.66%
	15	0	0	0	78,909	16,175	78,881	173,965	486	174,867	0.28%
	16	0	0	0	0	0	0	0	0	0	---
	17	0	0	0	0	0	0	0	0	0	---
	18	0	0	18,726	0	0	457,894	476,620	107	479,584	0.02%
	19	0	0	81,286	158,595	0	454,485	694,366	29,653	724,019	4.10%
	19	0	0	8,390	17,489	1,084	44,914	71,877	172	72,049	0.24%
	19	0	0	0	0	0	0	0	0	0	---
	20	0	0	1,558	12,451	825	68,669	83,503	0	83,503	0.00%
	20	0	0	0	440	152	4,337	4,929	1,176	6,105	19.26%
	20	0	0	0	211	62	2,897	3,170	331	3,501	9.45%
	20	0	0	320	802	96	4,106	5,324	1,078	6,400	16.81%
	20	0	0	119	389	164	2,582	3,254	560	3,814	14.68%
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>831,619</b>	<b>2,554,286</b>	<b>843,969</b>	<b>8,062,632</b>	<b>12,292,506</b>	<b>791,342</b>	<b>13,395,961</b>	<b>5.91%</b>
		<b>0.00%</b>	<b>0.00%</b>	<b>6.77%</b>	<b>20.78%</b>	<b>6.87%</b>	<b>65.59%</b>	<b>100.00%</b>			

FSM881 INCOMING SCF KEY/OCR/BCR

OP NO	PLANT NO	QP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
144/424	1	0	0	0	73,474	0	216,820	290,294	71,876	368,064	19.53%
	1	0	0	0	7,666	0	41,851	49,517	5,257	59,885	8.78%
	1	0	0	0	54,857	0	167,209	222,066	59,202	284,530	20.81%
	2	0	0	0	0	0	0	0	0	0	—
	3	0	0	0	42,328	16,648	887,284	948,260	1	948,261	0.00%
	3	0	0	0	182,365	16,820	1,090,858	1,290,043	64,680	1,354,723	4.77%
	4	0	0	0	17,170	8,233	149,388	174,771	56	174,827	0.03%
	4	0	0	0	24,581	6,309	273,450	304,340	197	304,537	0.06%
	4	0	0	0	21,022	12,425	208,103	241,550	88	241,638	0.04%
	4	0	0	0	7,557	4,423	61,061	73,041	9,200	82,241	11.19%
	4	0	0	0	5,414	3,582	60,171	69,167	8,292	77,459	10.71%
	5	0	0	0	0	0	0	0	0	0	—
	6	0	0	0	149	0	6,694	6,843	0	6,843	0.00%
	6	0	0	0	1,504	0	20,555	22,059	2,901	24,960	11.62%
	7	0	0	0	0	0	0	0	0	0	—
	8	0	0	0	1,664	297	21,234	23,195	874	23,869	2.82%
	8	0	0	0	4,361	135	8,686	13,182	524	13,706	3.82%
	8	0	0	0	4,956	1,059	46,395	52,410	13,167	65,577	20.08%
	8	0	0	0	2,070	30	6,004	8,104	1,538	9,642	15.95%
	9	0	0	0	0	0	0	0	0	0	—
	10	0	0	0	0	0	0	0	0	0	—
	11	0	0	0	0	0	0	0	0	0	—
	12	0	0	0	0	0	0	0	0	0	—
	13	0	0	0	0	0	0	0	0	0	—
	14	0	0	0	1,373	352	77,334	79,059	6,498	88,548	7.34%
	14	0	0	0	15,716	9,358	940,599	965,673	75	1,017,621	0.01%
	15	0	0	0	953	0	22,303	23,256	3,489	26,745	13.05%
	15	0	0	0	1,276	0	21,376	22,652	935	23,587	3.96%
	15	0	0	0	1,340	0	34,292	35,632	1,281	36,913	3.47%
	15	0	0	0	135	6	3,530	3,671	279	3,950	7.06%
	15	0	0	0	10,841	1,219	30,251	42,311	416	42,727	0.97%
	15	0	0	0	211	5	1,343	1,559	6	1,565	0.38%
	15	0	0	0	834	421	23,786	25,041	174	25,215	0.69%
	18	0	0	0	0	0	0	0	0	0	—
	17	0	0	0	0	0	0	0	0	0	—
	18	0	0	0	0	0	0	0	0	0	—
	19	0	0	0	0	0	0	0	0	0	—
	20	0	0	0	0	3,435	63,149	66,584	2	66,586	0.00%
	20	0	0	0	0	596	20,408	21,004	1	21,005	0.00%
	20	0	0	0	1,740	113	54,716	56,569	3	58,567	0.01%
	20	0	0	0	306	20	12,553	12,879			#DIV/0!
	20	0	0	0	0	5,803	101,781	107,564	21,797	129,361	16.85%
	20	0	0	0	0	469	6,885	7,154	1,342	8,496	15.80%
	20	0	0	0	0	673	9,510	10,183	1,214	11,397	10.65%
	20	0	0	0	0	75	2,271	2,346	83	2,429	3.42%
	20	0	0	0	0	361	39,402	39,763	2,456	42,219	5.82%
	20	0	0	0	0	26	4,607	4,633	177	4,810	3.68%
	20	0	0	0	2,332	0	47,967	50,299	8,899	59,198	15.03%
	20	0	0	0	13	0	486	499	102	601	16.97%
	20	0	0	0	293	0	3,910	4,203	455	4,658	9.77%
	20	0	0	0	927	0	42,149	43,076	3,351	46,427	7.22%
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>469,426</b>	<b>94,693</b>	<b>4,630,131</b>	<b>5,414,452</b>	<b>290,686</b>	<b>5,761,405</b>	<b>5.05%</b>
		<b>0.00%</b>	<b>0.00%</b>	<b>0.00%</b>	<b>9.04%</b>	<b>1.75%</b>	<b>89.21%</b>	<b>100.00%</b>			

FSM1000 OUTGOING PRIMARY KEY/OCR/BCR

OP NO	PLANT NO	OP	QB	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
441/481	1	0	0	135,710	111,159	15,468	0	262,337	12	266,846	0.00%
	1	0	0	119,993	110,542	14,556	0	245,091	33	249,784	0.01%
	2	0	69,532	362,368	140,015	116,850	45,305	734,070	195	747,518	0.03%
	2	0	27,693	145,216	64,288	57,136	22,221	318,554	176	323,920	0.05%
	2	0	0	109,550	46,142	25,037	0	180,729	7,783	188,512	4.13%
	2	0	5,426	66,300	34,844	16,965	0	123,535	233	123,768	0.19%
	3	0	247,960	906,187	508,422	761,993	62,944	2,487,506	48	2,539,447	0.00%
	3	0	7,200	357,362	27,574	61,487	0	453,623	568	454,189	0.12%
	4	0	8,493	246,889	50,795	70,445	0	376,622	6	377,560	0.00%
	4	0	0	49,843	4,393	7,822	0	62,058	1,267	64,607	1.96%
	4	0	31,647	157,213	121,280	51,224	14,489	375,863	1,271	384,099	0.33%
	5	0	61,633	295,318	132,775	326,939	0	816,865	611	830,503	0.07%
	6	0	143,393	363,020	12,284	260,403	143,776	922,878	145	940,509	0.02%
	7	0	61,019	471,420	269,634	141,944	11,665	955,682	1,664	967,722	0.17%
	8	0	172,345	318,062	295,900	126,472	88,157	1,010,836	4,189	1,023,708	0.41%
	8	0	319	2,120	2,373	562	3,404	8,778	22	8,872	0.25%
	8	0	1,468	12,661	8,158	2,945	15,259	40,491	128	40,865	0.31%
	9	0	52,902	20,565	19,308	29,480	25,523	147,778	25	150,347	0.02%
	10	0	0	0	0	0	0	0	0	0	---
	11	0	53,121	211,632	191,091	23,348	78,696	557,888	1,052	558,940	0.19%
	12	0	416,639	481,664	389,573	50,666	871,694	2,210,236	6,286	2,232,369	0.28%
	12	0	50,592	123,087	68,704	13,561	117,167	373,111	3,814	377,842	1.01%
	13	0	130,405	64,292	196,812	160,059	172,301	743,869	15,198	808,770	1.88%
	14	0	61,470	151,215	311,291	72,819	43,103	639,898	77	696,658	0.01%
	15	0	215,174	693,976	424,388	131,659	15,860	1,481,057	10,132	1,510,774	0.67%
	15	0	5,093	17,658	12,105	3,158	0	38,014	235	38,535	0.61%
	16	0	30,835	364,282	135,518	5,742	0	536,377	3,267	553,867	0.59%
	17	0	18,993	117,449	158,897	41,087	0	334,426	48	348,335	0.01%
	18	0	123,794	72,879	159,971	94,893	460,179	911,716	1,804	942,841	0.19%
	19	0	88,487	554,185	176,393	102,746	1,636	923,447	3,660	943,359	0.41%
	20	0	149,980	322,146	303,031	139,020	178,128	1,092,303	1,047	1,108,580	0.09%
	<b>TOTAL</b>	<b>0</b>	<b>2,233,613</b>	<b>7,314,262</b>	<b>4,487,660</b>	<b>2,946,466</b>	<b>2,381,616</b>	<b>19,363,536</b>	<b>65,234</b>	<b>19,803,566</b>	<b>0.33%</b>
		<b>0.00%</b>	<b>11.54%</b>	<b>37.77%</b>	<b>23.18%</b>	<b>15.22%</b>	<b>12.30%</b>	<b>100.00%</b>			

FSM1000 OUTGOING SECONDARY KEY/OCR/BCR

OP NO	PLANT NO.	OP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
442462	1	0	0	0	0	0	0	0	0	0	—
	2	0	13,738	218,764	27,390	6,749	315	264,956	196	269,733	—
	3	0	56,489	311,720	38,752	45,678	645	453,282	329	458,635	0.07%
	4	0	1,916	10,877	644	813	0	14,250	28	15,331	0.18%
	5	0	46,954	97,353	68,981	47,863	0	261,151	0	267,469	0.00%
	6	0	0	238,961	955	0	0	239,916	156	240,511	0.06%
	7	0	11,071	72,964	3,159	5,023	0	92,217	178	95,014	0.19%
	8	0	25,660	140,408	13,681	24,192	0	204,141	431	211,293	0.20%
	8	0	7,897	921	78	1,161	0	9,857	10	9,907	0.10%
	9	0	22,619	101,337	16,687	3,518	0	144,161	593	145,013	0.41%
	9	0	32,391	0	96,666	74,238	285,824	489,119	562	489,681	0.11%
	10	0	0	0	0	0	0	0	0	0	—
	11	0	0	13,258	648	0	0	13,906	319	14,225	2.24%
	12	0	46,181	649,258	53,054	0	0	748,493	64	821,939	0.01%
	12	0	0	83,226	7,330	0	0	90,556	21	91,817	0.02%
	13	0	0	189,578	50,871	22,261	0	262,710	1,048	264,171	0.40%
	14	0	7,067	147,451	10,392	4,745	0	169,655	239	170,858	0.14%
	15	0	46,553	212,585	17,732	14,865	0	291,535	3,685	298,579	1.23%
	16	0	0	0	0	0	0	0	0	0	—
	17	0	0	0	0	0	0	0	0	0	—
	18	0	635	0	20,705	3,448	34,738	59,526	624	60,182	1.04%
	18	0	0	388,035	5,926	24,158	285	418,384	1,173	421,830	0.28%
	19	0	0	0	0	0	0	0	0	0	—
	20	0	0	411,806	19,313	28,987	0	460,106	32,395	494,466	6.55%
	<b>TOTAL</b>	<b>0</b>	<b>318,971</b>	<b>3,286,502</b>	<b>453,164</b>	<b>307,497</b>	<b>321,787</b>	<b>4,687,921</b>	<b>42,051</b>	<b>4,846,474</b>	<b>0.87%</b>
		<b>0.00%</b>	<b>6.80%</b>	<b>70.11%</b>	<b>9.67%</b>	<b>6.56%</b>	<b>6.86%</b>	<b>100.00%</b>			

FSM1000 INCOMING MMP KEY/OCR/BCR

OP NO	PLANT NO	OP	OS	MMP	SGF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
443/483	1	0	0	0	0	0	0	0	0	0	—
	2	0	0	178,097	353,770	21,370	1,408,481	1,959,718	7,841	2,013,950	0.39%
	3	0	0	149,681	231,690	349,158	759,803	1,490,132	12,882	1,503,014	0.86%
	3	0	0	52,778	84,199	248,771	300,339	686,087	8,012	692,099	0.87%
	4	0	0	145,805	199,787	84,043	423,694	853,109	4,183	857,272	0.49%
	4	0	0	2,261	3,353	1,566	8,886	15,886	383	16,249	2.36%
	4	0	0	51,494	84,497	34,491	178,659	349,141	1,231	350,372	0.35%
	5	0	0	87,115	0	102,752	1,337,887	1,527,754	173	1,527,927	0.01%
	5	0	0	10,518	0	18,740	310,402	340,660	52	340,712	0.02%
	6	0	0	149,657	50,329	514,102	1,389,274	2,103,362	375	2,110,799	0.02%
	7	0	0	0	424,802	174,149	690,661	1,289,432	832	1,290,265	0.06%
	7	0	0	0	7,409	1,357	7,480	16,246	1	16,247	0.01%
	8	0	0	0	144,859	57,582	233,399	435,840	26,929	462,769	5.82%
	9	0	0	293	820	370	3,976	5,259	18	5,277	0.34%
	10	0	0	0	0	0	0	0	0	0	—
	11	0	0	0	248,059	0	517,839	765,898	977	850,309	0.11%
	11	0	0	0	79,959	0	120,954	200,913	219	209,045	0.10%
	12	0	0	101,592	385,444	97,355	1,084,365	1,668,758	8,026	1,687,247	0.53%
	12	0	0	7,704	20,299	4,772	64,383	97,158	580	98,007	0.59%
	13	0	0	0	0	0	0	0	0	0	—
	14	0	0	12,554	107,757	15,839	163,046	299,196	3	344,356	0.00%
	14	0	0	0	83,649	17,951	903,015	1,004,615	5	1,095,693	0.00%
	15	0	0	6,571	25,858	9,025	46,865	88,319	159	89,105	0.18%
	15	0	0	116,310	444,984	140,209	932,036	1,633,519	2,467	1,638,331	0.15%
	15	0	0	10,062	35,673	9,768	81,873	137,376	257	137,743	0.19%
	16	0	0	129,768	433,979	82,786	757,805	1,404,338	7,912	1,420,051	0.56%
	17	0	0	0	0	0	0	0	0	0	—
	18	0	0	143,678	225,841	90,169	705,128	1,164,816	5,432	1,200,830	0.45%
	18	0	0	123,332	236,678	73,820	626,924	1,060,554	2,765	1,072,427	0.26%
	19	0	0	0	1,061	74,214	363,589	438,864	1,955	464,852	0.42%
	20	0	0	93,169	300,133	21,425	811,092	1,225,819	155	1,234,822	0.01%
	20	0	0	452	10,431	2,071	62,181	75,135	2	75,538	0.00%
	20	0	0	585	18,881	4,456	105,525	129,447	0	130,952	0.00%
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>1,571,276</b>	<b>4,243,781</b>	<b>2,253,111</b>	<b>14,399,181</b>	<b>22,467,349</b>	<b>92,826</b>	<b>22,936,060</b>	<b>0.40%</b>
		<b>0.00%</b>	<b>0.00%</b>	<b>6.99%</b>	<b>18.89%</b>	<b>10.03%</b>	<b>64.09%</b>	<b>100.00%</b>			

FSM1000 INCOMING SCF KEY/OCR/BCR

OP NO	PLANT NO.	OP	OS	MMP	SCF	IP	IS	TOTAL	REJECTS	TOTAL	REJECT PERCENT
444/444	1	0	0	0	138,785	0	405,163	543,948	48	550,140	0.01%
	1	0	0	0	0	0	404,088	404,088	42	535,801	0.01%
	2	0	0	0	33,169	11,180	386,207	430,556	109	430,865	0.03%
	2	0	0	0	15,335	15,250	344,706	375,291	42	375,333	0.01%
	3	0	0	0	94,578	20,762	1,258,295	1,373,835	788	1,374,421	0.06%
	3	0	0	0	194,338	25,515	1,115,489	1,335,342	838	1,336,180	0.06%
	3	0	0	0	72,212	3,753	288,621	364,586	216	364,802	0.06%
	4	0	0	0	36,326	0	244,507	280,833	105	281,408	0.04%
	4	0	0	0	62,168	0	297,705	359,873	316	360,199	0.09%
	4	0	0	0	147	0	977	1,124	0	1,124	0.00%
	5	0	0	0	20,521	8,183	521,972	550,676	3,997	554,673	0.72%
	5	0	0	0	4,524	2,480	134,210	141,194	2,630	143,824	1.83%
	6	0	0	0	4,247	7,340	186,328	197,915	44	197,967	0.02%
	7	0	0	0	14,029	14,380	306,208	334,617	28	334,709	0.01%
	7	0	0	0	18,950	14,869	487,360	521,179	67	521,246	0.01%
	7	0	0	0	180	646	14,036	14,862	19	14,881	0.13%
	8	0	0	0	51,983	20,351	438,284	510,618	20,289	530,907	3.82%
	8	0	0	0	693	3	2,633	3,329	38	3,367	1.13%
	9	0	0	0	0	0	0	0	0	0	—
	10	0	0	0	0	0	0	0	0	0	—
	11	0	0	0	21,199	0	176,875	198,074	416	198,490	0.21%
	11	0	0	0	38,874	0	94,705	133,579	182	133,761	0.14%
	11	0	0	0	7,921	0	148,066	153,987	0	153,987	0.00%
	11	0	0	0	12,633	0	92,262	104,895	8	104,903	0.01%
	11	0	0	0	5,295	0	9,727	15,022	45	15,067	0.30%
	11	0	0	0	19,720	0	26,729	46,449	136	46,585	0.29%
	12	0	0	0	76,832	0	485,972	562,804	74	563,812	0.01%
	12	0	0	0	8,538	0	288,378	296,916	16	297,208	0.01%
	13	0	0	0	0	20,266	453,570	473,836	25,578	499,414	5.12%
	14	0	0	0	8,888	8,911	601,614	619,213	681	662,773	0.10%
	14	0	0	0	3,178	3,285	352,488	358,951	77	360,215	0.02%
	15	0	0	0	65,743	9,241	346,047	421,031	8,366	429,442	1.96%
	15	0	0	0	22,538	2,066	93,497	118,101	2,008	120,109	1.67%
	15	0	0	0	31,324	3,524	339,832	374,680	7,840	382,521	2.05%
	15	0	0	0	3,684	263	29,310	33,257	782	34,039	2.30%
	16	0	0	0	120,911	17,770	304,991	443,672	1,876	447,885	0.37%
	17	0	0	0	5,981	508	151,218	157,707	0	158,518	0.00%
	17	0	0	0	3,310	0	143,553	146,863	3,640	153,912	2.36%
	18	0	0	0	0	1,390	61,457	62,847	0	62,847	0.00%
	19	0	0	0	0	65,869	109,309	175,178	1,611	319,877	0.50%
	20	0	0	0	22,777	5,433	469,242	497,452	7,875	505,958	1.56%
	20	0	0	0	4,550	982	86,516	92,048	1,443	93,672	1.54%
	20	0	0	0	13,496	2,773	523,938	540,207	4,496	545,223	0.82%
	20	0	0	0	5,733	11,468	330,911	348,112	2,585	350,707	0.74%
	20	0	0	0	358	862	17,182	18,400	77	18,477	0.42%
	20	0	0	0	3,159	4,833	349,494	357,486	3,016	360,505	0.84%
	TOTAL	0	0	0	1,268,625	304,136	12,921,672	14,494,433	102,272	15,061,534	0.68%
		0.00%	0.00%	0.00%	8.76%	2.10%	89.15%	100.00%			