

Appendix A
Operating Reports

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

April 2015

General

- Newport met the landfill abatement.
- To keep up with Xcel fuel demand Newport processed one extra Sunday day shift on 4/26.
- Production at the Wilmarth generating plant was above budget with minimal down times reported for repairs on the traveling grates and screw feeders. They also replaced a belt on the transfer conveyor.
- Production at the Red Wing generating plant was below budget due to repairs to the Unit # 2 turbine and auxiliary oil pump. They preformed shot balancing on both turbines and generators. They also preformed duct scrubber cleaning and fire protection upgrades. Stack testing was also completed on both units this month.
- RRT Newport employees received confined space safety training this month.

	<u>Apr 2014</u>	<u>YTD 2014</u>	<u>Apr 2015</u>	<u>YTD 2015</u>
MSW Received	38,201	119,433	36,658	111,987
MSW Processed	34,897	111,709	34,092	102,932
Total RDF Produced	32,483	102,653	31,704	93,749
RDF Red Wing	15,721	47,213	15,782	45,753
RDF Wilmarth	15,815	43,636	15,922	44,491
RDF GRE	947	11,804	0	3,505
Non-ferrous Residue	75	242	80	197
Ferrous Del/Sold	1,082	5,120	1,003	5,272
Fluff Returned to Landfill	1,257	3,671	1,325	3,717
Bulky Waste Residue	255	1,034	169	753
RDF Yield	1,990	6,657	2,131	7,804
	93.0 %	91.8 %	92.9 %	91.1 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Reconstructed the head pulley of MO22-A in- feed conveyor on "A" line.
2. Installed new hammers twice on the "A" line flail mill.
3. Repaired the roof cage to the "A" line flail mill.
4. Repaired the flaps and chute on the "A" line magnetic separator.
5. Installed new lower grates and repaired the vent fan on the "A" line flail mill.
6. Greased the 4160 breakers to the "A" line flail mill.
7. Installed new hammers and repaired the roof flaps on the "B" line flail mill.
8. Replaced the boom cylinder on the "B" line grapple crane.
9. Made repairs to the "B" line C1-B transfer conveyor.
10. Changed out the filters on the "B" line primary disc screen.
11. Installed new hammers on the "B" line secondary shredder.
12. Adjusted the air damn on the "B" line secondary shredder.
13. Performed spring clean up on the outside of the facility.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

August 2015

General

- Newport met the landfill abatement.
- To keep up with Xcel fuel demand Newport processed on 2 extra Sunday day shifts.
- Production at the Wilmarth generating plant was above budget with minimal down times reported for repairs to the boiler tubes, walking floor, and the distribution conveyor.
- Production at the Red Wing generating plant was slightly below average with down times reported for boiler cleaning on Unit # 2, screw feeder repairs, scalping conveyor repairs and steam oil pump repairs.
- All RRT Newport employees received machine guarding safety training.

	<u>Aug 2014</u>	<u>YTD 2014</u>	<u>Aug 2015</u>	<u>YTD 2015</u>
MSW Received	36,649	272,922	39,548	277,081
MSW Processed	32,765	246,841	35,902	254,015
Total RDF Produced	29,872	225,497	33,266	233,230
RDF Red Wing	15,335	110,318	18,604	123,701
RDF Wilmarth	14,537	103,375	14,662	101,736
RDF GRE	0	11,804	0	7,793
Non-ferrous	57	500	71	527
Residue	1,620	12,060	1,260	10,961
Ferrous Del/Sold	1,210	8,759	1,316	9,333
Fluff Returned to Landfill	384	1,931	320	1,563
Bulky Waste Residue	3,761	21,366	2,255	17,615
RDF Yield	91.1 %	91.3 %	92.6 %	91.8 %

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August 2015
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Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Replaced wheels and pans on the MO20-A in-feed conveyor on "A" line.
2. Replaced skirt boards on the MO22-A in-feed conveyor on "A" line.
3. Installed new hammers and keepers on the "A" line flail mill.
4. Repaired the roof flaps on the "A" line flail mill.
5. Made belt and discharge chute repairs on the "A" line magnetic separator.
6. Installed new hammers on the "A" line secondary shredder.
7. Cleaned the bags on the 'A' line dust collection.
8. Installed new poly liners in the A-1 & A-2 RDF compactors on "A" line.
9. Repaired the floor plate to the MO20-B in-feed conveyor on "B" line.
10. Installed new hammers and keepers in the "B" line flail mill.
11. Repaired the cover cylinder leaks on the "B" line flail mill.
12. Replaced hydraulic lines on the "B" line primary disc screen.
13. Rotated the hammers on the "B" line secondary shredder.
14. Repaired the skirting to the C-6 RDF conveyor on "B" liner.
15. Patched holes and repaired the chute on the B-2 RDF compactor on "B" line.
16. Performed annual 4160 breaker maintenance in the MCC room.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

February 2015

General

- Newport met the landfill abatement.
- Production at the Wilmarth generating plant was below budget due to minor delays in completing their annual maintenance on Unit #1.
- Production at the Red Wing generating plant was also below budget due to replacing the circulating. Red Wing also repaired an exciter ring on Unit # 1.
- Newport had a minor explosion in the "A" line flail which caused no damage to the associated equipment.
- A blow-down of the Newport facility was completed. Blow- Downs are scheduled for each quarter.
- All RRT Newport employees received Right to Know safety training.

	<u>Feb 2014</u>	<u>YTD 2014</u>	<u>Feb 2015</u>	<u>YTD 2015</u>
MSW Received	23,584	52,843	21,109	48341
MSW Processed	20,382	48,524	19,209	44,519
Total RDF Produced	18,759	43,636	17,845	39,565
RDF Red Wing	7,804	24,434	5,096	22,582
RDF Wilmarth	10,086	10,872	11,634	13,478
RDF GRE	869	8,330	1,115	3,505
Non-ferrous	48	126	49	101
Residue	973	3,228	650	3,328
Ferrous Del/Sold	602	1,534	664	1,525
Fluff Returned to Landfill	253	542	206	411
Bulky Waste Residue	1,631	2,662	1,527	4,170
RDF Yield	92.0 %	89.9 %	92.8 %	88.8 %

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February 2015
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Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Replaced the saddles and wheels on the MO22-A in-feed conveyor on "A" line.
2. Installed new hammers on the "A" line flail mill.
3. Repaired the bunker door frame to the "A" line flail mill.
4. Replace the C1-A transfer belt on "A" line.
5. Replaced the belt on the "A" line magnetic separator.
6. Replaced all of the rollers in the "A" line primary disc screen.
7. Cleaned all bags associated to the "A" line dust collection.
8. Welded the end discs on the "A" line secondary shredder.
9. Replaced the head pulley to the MO22-B in-feed conveyor on "B" line.
10. Installed new hammers, lowered grates and wear plates on the "B" line flail mill.
11. Replaced the hydraulic lines on the "B" line grapple crane.
12. Replaced all of the rollers in the "B" line primary disc screen.
13. Flopped the hammers, repaired the air dams, welded the end disc's and replaced the cover hinges on the "B" line secondary shredder.
14. Cleaned all bags associated to the "B" line dust collection.
15. Replaced the discharge plate to the C-12 magnetic separator.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

January 2015

General

- Newport received 147 tons of MSW and processed on both lines New Years Day. This was approximately 65 tons less than New Years Day 2014.
- Newport met the landfill abatement goal.
- Production at the Wilmarth generating plant was three days less than budget due to additional maintenance on both units.
- Production at the Red Wing generating plant was better than budget due to less down time for repairs to boiler tubes, C-9 ash conveyor, and the screw feeder.
- All RRT Newport employees received Emergency action plan safety training.

	<u>Jan 2014</u>	<u>YTD 2014</u>	<u>Jan 2015</u>	<u>YTD 2015</u>
MSW Received	29,259	29,259	27,232	27,232
MSW Processed	28,143	28,143	25,310	25,310
Total RDF Produced	24,877	24,877	21,720	21,720
RDF Red Wing	16,630	16,630	17,486	17,486
RDF Wilmarth	786	786	1,844	1,844
RDF GRE	7,461	7,461	2,390	2,390
Non-ferrous	78	78	52	52
Residue	2,255	2,255	2,678	2,678
Ferrous Del/Sold	932	932	861	861
Fluff Returned to Landfill	289	289	205	205
Bulky Waste Residue	1,031	1,031	2,643	2,643
RDF Yield	88.3 %	88.3 %	85.7 %	85.7 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Repaired the head pulley radius on the MO22-A in - feed conveyor on "A" line.
2. Replaced the conveyor pans on the MO20-A in-feed on "A" line.
3. Rotated the hammers on the "A" line flail mill.
4. Installed new cover grates on the "A" line flail mill.
5. Repaired the belt splice on the C-1A transfer conveyor on "A" line.
6. Repaired leaks to the primary disc screen on "A" line.
7. Installed new hammers and grates on the secondary shredder "A" line.
8. Replaced wheels and conveyer pans on the MO22-B in-feed on "B" line.
9. Rotated the hammers and tensioned the belt on the "B" line flail mill.
10. Repaired the discharge chute to the "B" line magnetic separator.
11. Replaced the wheel guides and repaired the packer head on the B-1 RDF compactor.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

July 2015

General

- Newport met the landfill abatement.
- Newport received 217 tons of MSW and processed with both lines for 10 hours on July 4th. This was approximately 180 tons less than last year due to the holiday falling on a Saturday.
- To keep up with Xcel fuel demand Newport processed 3 extra Sunday day shifts.
- Newport produced 37,128 tons of RDF, a new all time monthly record. The old record was 35,039 tons set in May of 2013.
- Production at the Wilmarth generating plant was above budget with minimal down times reported for repairs to the screw feeder, boiler tubes, and Unit #1's generator.
- Production at the Red Wing generating plant was above budget with minimal down times reported for repairs to the screw feeder. Red Wing also conducted a scheduled boiler cleaning outage on Unit #2.
- On 7/27/15 Newport experienced a explosion in the "B" line which resulted in minor damage to the flail mill roof flaps. The flaps were put back in place and the line was operational in 20 minutes.
- All RRT Newport employees received respiratory and hearing tests.

	<u>July 2014</u>	<u>YTD 2014</u>	<u>July 2015</u>	<u>YTD 2015</u>
MSW Received	42,454	236,273	44,868	237,533
MSW Processed	35,852	214,076	40,422	218,113
Total RDF Produced	32,800	195,625	37,129	199,964
RDF Red Wing	17,293	94,983	19,694	105,097
RDF Wilmarth	15,507	88,838	15,567	87,074
RDF GRE	0	11,804	1,868	7,793
Non-ferrous	69	443	86	456
Residue	1,597	10,440	1,738	9,701
Ferrous Del/Sold	1,389	7,549	1,463	8,017
Fluff Returned to Landfill	197	1,675	167	1,303
Bulky Waste Residue	4,492	17,605	2,482	15,360
RDF Yield	91.4 %	91.3 %	91.8 %	91.6 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Repaired the chain on the MO20-A in-feed conveyor on "A" line.
2. Replaced a hydraulic line and drive mount on the MO22-A in-feed conveyor on "A" line.
3. Installed new hammers and tightened the base bolts on the "A" line flail mill.
3. Installed new tail flaps on the C1-A transfer conveyor on "A" line.
4. Replaced the skid plate on the "A" line magnetic separator.
5. Replaced the drive motor to the primary disc screen on "A" line.
6. Rotated the hammers and adjusted the air damn on the "A" line secondary shredder.
7. Patched the holes in the A-1 RDF compactor on "A" line.
8. Installed new hammers, lower grates and lower wear plates in the "B" line flail mill.
9. Replaced the vent fan motor and repaired the roof flaps on the "B" line flail mill.
10. Repaired the drive chain and skirt boards on the MO22-B in-feed conveyor on "B" line.
11. Replaced the claw on the "B" line grapple crane.
12. Repaired the tail pulley on the C1-B transfer conveyor on "B" line.
13. Repaired the belt and replaced flaps on the "B" line magnetic separator.
14. Repaired hydraulic leaks on the "B" line primary disc screen.
15. Installed new hammers and put weld up on the rotor and spyderys on the "B" line secondary shredder.
16. Replaced the B-1 and B-2 compactor wheels on "B" line.
17. Cleaned the bags to the bag house dust collection system on "A" and "B" lines.

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

June 2015

General

- Newport met the landfill abatement.
- To keep up with Xcel fuel demand Newport processed 3 extra Sunday day shifts.
- Production at the Wilmarth generating plant was slightly below budget due to down times reported for scalping conveyer repairs and a turbine steam leak on unit # 2. They also had a scheduled quarterly outage for boiler cleaning.
- Production at the Red Wing generating plant was slightly below budget due to down times reported for repairs to the screw feeders, over fire air fan repairs, and condenser cleaning. They also cleaned the boiler on Unit # 1 as planned.
- A.E.S. was on site this month for quarterly air sampling.
- All RRT Newport employees received fall protection safety training.

	<u>June 2014</u>	<u>YTD 2014</u>	<u>June 2015</u>	<u>YTD 2015</u>
MSW Received	34,707	193,818	39,576	192,666
MSW Processed	30,931	178,224	37,361	177,692
Total RDF Produced	27,983	162,825	34,260	162,835
RDF Red Wing	15,484	77,690	19,703	85,403
RDF Wilmarth	12,498	73,331	12,137	71,507
RDF GRE	0	11,804	2,420	5,925
Non-ferrous	55	374	72	339
Residue	1,784	8,843	1,587	7,963
Ferrous Del/Sold	1,103	6,160	1,441	6,554
Fluff Returned to Landfill	220	1,478	184	1,137
Bulky Waste Residue	3,685	13,113	2,652	12,878
RDF Yield	90.5 %	91.3 %	91.7 %	91.6 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new pans and skirt boards on the MO20-A in- feed conveyor on "A" line.
2. Installed new hammers and keepers in the "A" line flail mill.
3. Replaced the bearing bolts and tighten the floor bolts on the "A" line flail mill.
4. Installed new roof flaps and repaired the vents on the "A" line flail mill.
5. Repaired the roof apex to the "A" line flail mill.
6. Replaced the 2 ton hoist in the 'A" line flail mill bunker.
7. Installed new skirt boards on the C1-A transfer conveyor on "A" line.
8. Replaced the head pulley drum on the "A" line magnetic separator.
9. Replaced the primary disc screen rollers on "A" line.
10. Rotated the hammers and put weld build on the rotor on the "A" line secondary shredder.
11. Installed new hammers twice in the "B" line flail mill.
12. Repaired the roof apex to the "B" line flail mill.
13. Replaced the motor to the "B" line magnetic separator.
14. Replaced the rollers on the "B" line aluminum separator.
15. Rotated the hammers and put weld build up on the rotor on the "B" line secondary shredder.
16. Repaired the C-12 magnetic separator conveyor belt.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

March 2015

General

- Newport met the landfill abatement.
- Production at the Wilmarth generating plant was below budget due to scalping conveyor and traveling grate repairs. They also repaired a steam leak on turbine # 1.
- Production at the Red Wing generating plant was below budget due to delays in completing their annual maintenance outage on both units.
- Newport had two explosions in the "A" line flail mill this month. One on 3/16/15 at 1400 hrs which caused no damage to associated equipment. The other explosion on 3/24/15 at 1515 hrs caused minor damage to the C1-A troughing rollers and the flail mill bunker doors.
- Newport did not process on the second shift for most of March due to lack of burn capacity at Xcel.
- RRT Newport employees received combustible dust and housekeeping safety training.

	<u>Mar 2014</u>	<u>YTD 2014</u>	<u>Mar 2015</u>	<u>YTD 2015</u>
MSW Received	28,389	81,231	26,988	75,329
MSW Processed	28,288	76,812	24,321	68,840
Total RDF Produced	26,534	70,170	22,480	62,045
RDF Red Wing	7,058	31,492	7,389	29,971
RDF Wilmarth	16,949	27,821	15,091	28,569
RDF GRE	2,527	10,857	0	3,505
Non-ferrous	64	190	33	134
Residue	810	4,038	941	4,269
Ferrous Del/Sold	880	2,414	867	2,392
Fluff Returned to Landfill	238	779	173	584
Bulky Waste Residue	2,005	4,667	1,503	5,673
RDF Yield	93.7 %	91.3 %	92.4 %	90.1 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Replaced the pit stairs to the MO20-A in-feed conveyor on "A" line.
2. Installed new skirt boards and welded new steel on the head pulley of MO22-A in-feed conveyor "A" line.
3. Rotated the hammers and repaired the apex on the "A" line flail mill.
4. Replaced the ploy and repaired the vents fans on "A" line flail mill.
5. Repaired the discharge chute on the "A" line magnetic separator.
6. Repaired hydraulic leaks on the "A" line primary disc screen.
7. Replaced the bearings on the "A" line aluminum separator.
8. Rotated the hammers and tightened the floor bolts on the "A" line secondary shredder.
9. Replaced the skirt boards on the MO20-B in-feed conveyor on "B" line.
10. Replaced the belly pans on the MO22-B in-feed conveyor on "B" line.
11. Installed new hammers and spyder caps in the "B" line flail mill.
12. Replaced the cover grates on the "B" line flail mill.
13. Repaired the power pack on the "B" line primary disc screen.
14. Adjusted the air damn on the "B" line secondary shredder.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

May 2015

General

- Newport met the landfill abatement.
- On Memorial Day, Newport received 545 tons of MSW. This was 196 more tons than in 2014. Newport also processed on both lines during the day and night shift.
- To keep up with Xcel fuel demand Newport processed 4 extra Sunday day shifts.
- Production at the Wilmarth generating plant was above budget with minimal down times reported for traveling grate and scalping conveyor repairs.
- Production at the Red Wing generating plant was also above budget with one day of down time for fire protection work and duct scrubber cleaning.
- All RRT Newport employees received ergonomics safety training.

	<u>May 2014</u>	<u>YTD 2014</u>	<u>May 2015</u>	<u>YTD 2015</u>
MSW Received	39,679	159,112	41,102	153,090
MSW Processed	35,584	147,293	37,398	140,330
Total RDF Produced	32,189	134,842	34,826	128,575
RDF Red Wing	14,993	62,206	19,947	65,700
RDF Wilmarth	17,197	60,833	14,879	59,370
RDF GRE	0	11,804	0	3,505
Non-ferrous Residue	71	318	69	298
Ferrous Del/Sold	1,386	5,057	1,396	5,113
Fluff Returned to Landfill	224	1,258	199	952
Bulky Waste Residue	2,771	9,428	2,422	10,226
RDF Yield	90.3 %	91.5 %	93.1 %	91.6 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new wheels and skirt boards on the MO22-A in- feed conveyor on "A" line.
2. Installed new hammers in the "A" line flail mill.
3. Installed new rollers on the C1-A transfer conveyor on "A" line.
4. Replaced the gear box and repaired the head pulley on the "A" line magnetic separator.
5. Replaced the hoist in the "A" line flail mill bunker.
6. Patched the belt to the C9-A transfer conveyor on "A" line.
7. Installed new hammers in the "A" line secondary shredder.
8. Made repairs to the A2 RDF compactor on "A" line.
9. Installed new hammers twice in the "B" line flail mill.
10. Installed new grates and keepers in the "B" line flail mill.
11. Repaired the C9-B diverter gate on "B" line.
12. Replaced the zero speed switch on the primary disc screen on "B" line.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

April 2014

General

- Newport met the landfill abatement.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was very good with minimal down times.
- Production at the Red Wing generating plant was below average due to the extended time needed to repair the turbine on unit # 1 (257 hrs), the screw feeder and the generator brushes.
- Newport processed on two (2) Sunday day shifts in April to maintain the tipping floor tonnage and power plant RDF needs.
- All RRT Newport employees received safety training on confined spaces.

	<u>Apr 2013</u>	<u>YTD 2013</u>	<u>Apr 2014</u>	<u>YTD 2014</u>
MSW Received	39,029	121,396	38,201	119,433
MSW Processed	36,861	112,338	34,897	111,709
Total RDF Produced	34,389	103,249	32,483	102,653
RDF Red Wing	19,249	55,691	15,721	47,213
RDF Wilmarth	15,139	43,800	15,815	43,636
RDF GRE	0	3,758	947	11,804
Non-ferrous	64	153	75	265
Residue	1,145	5,095	1,082	5,120
Ferrous Del/Sold	1,263	3,841	1,257	3,671
Fluff Returned to Landfill ⁽¹⁾	368	1,303	413	1,457
Bulky Waste Residue	1,918	9,203	1,990	6,657
RDF Yield	93.3 %	91.9 %	93.0 %	91.8 %

(1) – Fluff returned to the landfill represents gross tons delivered to the landfill from both RRT and GRE. GRE is billed by RRT for its share of ferrous fluff.

Operating Report
April 2014
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Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following work was accomplished in April:

1. Installed new hammers and replaced the roof flaps on the “A” line flail mill.
2. Installed new belt splices on the C1-A transfer conveyor on “A” line.
3. Completed installing a new chute from C4-A to the “A” line aluminum separator.
4. Replaced the sliders and wheels on the A2 –RDF. Installed new hammers in the “A” line secondary shredder.
5. Repaired the front roller on the “A” line primary disc screen.
6. Replaced slider and wheels on the RDF –A2 compactor on “A” line.
7. Installed new hammers and tightened the base bolts on the “B” flail mill.
8. Replaced the bearing bolts and spyder caps in the “B” line flail mill.
9. Repaired the hydraulic leaks on the “B” line primary disc screen.
10. Replaced the C5-B dust hood on “B” line.
11. Installed new bearings on the “B” line aluminum separator.
12. Began installing a new chute from C4-B to the “B” line aluminum separator.
13. Made repairs to the air dam on the “B” line secondary shredder.
14. Installed new hammers and lower grates in the “B” line secondary shredder.

Respectfully:
Doug Germain

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

August 2014

General

- Newport met the landfill abatement.
- Non Ferrous recovery continues to exceed prior years by approximately 40 percent.
- Production at the Wilmarth generating plant was below average due to unexpected repairs to the boilers (116 hrs), traveling grate and ash conveyer.
- Production at the Red Wing generating plant was below average due to repairs to the boiler tubes (123 hrs), bag house cleaning, and additional lime feeder testing due to elevated HCL.
- Newport performed a quarterly plant blow down in August.
- Kennedy Scales was on site for one week to remove and replace the Out-Bound scale.
- All RRT Newport employees received safety training on Ladders/Lifts and Machine guarding.

	<u>Aug 2013</u>	<u>YTD 2013</u>	<u>Aug 2014</u>	<u>YTD 2014</u>
MSW Received	36,534	273,702	36,644	272,934
MSW Processed	33,605	254,074	32,765	246,841
Total RDF Produced	30,720	230,230	29,872	225,497
RDF Red Wing	18,784	129,116	15,335	110,318
RDF Wilmarth	11,838	97,258	14,537	103,375
RDF GRE	98	3,856	0	11,804
Non-ferrous	62	375	63	525
Residue	1,480	14,130	1,620	12,060
Ferrous Del/Sold	1,342	9,338	1,210	8,759
Fluff Returned to Landfill	238	1,690	255	1,931
Bulky Waste Residue	1,731	16,544	3,761	21,366
RDF Yield	91.4 %	90.6 %	91.1 %	91.3 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new hammers twice in the "A" flail mill.
2. Installed lower grates and keepers in the "A" line flail mill.
3. Replaced the roof flaps on the "A" line flail mill.
4. Repaired the "A" line MO20 & 22 in-feed conveyor wheels and skirt boards.
5. Cleaned the "A" line dust collection bags.
6. Replaced the magnetic separator bearings on "A" line.
7. Flopped the hammers and built up the wells on the end discs on the "A" line secondary shredder.
8. Replaced the A-1 & A-2 RDF compactor wheels on "A" line.
9. Installed new hammers in the "B" line flail mill.
10. Replaced the lower grates and wear plates in the "B" line flail mill.
11. Repaired the gear box on the "B" line aluminum separator.
12. Cleaned the "B" line dust collection bags.
13. Installed new sliders on the B-2 RDF compactor on "B" line.
14. Installed a belt patch on the C-12 magnetic separator.

Respectfully:
Doug Germain
Ryan Tritz

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

December 2014

General

- Newport met the landfill abatement goal.
- Newport did not process or receive waste on Christmas day.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was below average (129 hrs) due to unexpected down times reported for repairs on boiler tubes and the traveling grate conveyers. There was also unexpected down times reported for the generator on Unit # 1 and bag house cleaning. The annual maintenance outage started 2 days early on Unit #1.
- Production at the Red Wing generating plant was below average (139 hrs) due to repairs on the boiler tubes and screw feeder, traveling grate conveyers, condenser cleaning and reduced load on Unit # 2 due HCL issues.
- All RRT Newport employees received 1st Aid/CPR and Lock Out Tag Out safety training this month.

	<u>Dec 2013</u>	<u>YTD 2013</u>	<u>Dec 2014</u>	<u>YTD 2014</u>
MSW Received	30,350	406,897	33,803	414,550
MSW Processed	27,895	377,133	31,507	375,612
Total RDF Produced	25,622	342,582	29,360	343,169
RDF Red Wing	14,630	189,710	15,918	174,187
RDF Wilmarth	10,993	146,970	13,183	156,919
RDF GRE	0	5,903	259	12,063
Non-ferrous	46	579	73	778
Residue	1,313	20,048	948	18,017
Ferrous Del/Sold	913	13,924	1,125	13,647
Fluff Returned to Landfill	346	4,176	366	4,513
Bulky Waste Residue	2,620	25,542	2,006	32,831
RDF Yield	91.8 %	90.8 %	93.1 %	91.3 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new hammers and adjusted the tension on the belt on the "A" line flail mill.
2. Installed new hammer mill keepers (spacers that keep the hammers in place) in the "A" line flail mill.
3. Replaced skirt boards and flytes on the MO-20A in-feed conveyor.
4. Replaced belly pans and wheels on the MO-22A in-feed conveyor.
5. Repaired the belt and discharge chute on the on "A" line magnetic separator.
6. Installed new hammers in the "B" line flail mill.
7. Replaced the drive belt and installed a new cover cylinder "B" line flail mill.
8. Installed new belly pans and saddles on the MO22-B in-feed conveyor on "B" line.
9. Installed a new C10-B transfer belt on "B" line.
10. Rebuilt the air dam on the "B" line secondary shredder.
11. Installed new hammers in the "B" line secondary shredder.
12. Repaired both compactors on the Bulky Waste load out conveyor.
13. Replaced the drive motor and rotors in the Oversized Bulky Waste shredder.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

February 2014

General

- Production at the Wilmarth generating plant was below budget due to minor delays in the annual equipment overhaul. Boiler tube, screw feeder and C-4 ash conveyor repairs were all preformed. As a result, Newport shipped approximately 121 tons less than budgeted.
- Production at the Red Wing generating plant was above budget because Xcel rescheduled the start of their annual maintenance and turbine overhaul one week later. As a result, Newport shipped approximately 1,558 tons more than budgeted.
- All employees received Emergency Action Plan Safety Training this month.
- B line was down four days to remove and installed a new MO22-B in-feed conveyor.
- Newport installed an upgraded Steinert head drum on the B line eddy current non-ferrous metal separator.
- Newport met the landfill abatement.

	<u>Feb 2013</u>	<u>YTD 2013</u>	<u>Feb 2014</u>	<u>YTD 2014</u>
MSW Received	25,632	52,732	23,584	52,843
MSW Processed	22,677	47,311	20,382	48,524
Total RDF Produced	20,667	42,947	18,759	43,636
RDF Red Wing	5,324	23,862	7,804	24,434
RDF Wilmarth	13,919	15,327	10,086	10,872
RDF GRE	1,425	3,758	869	8,330
Non-ferrous	35	68	48	126
Residue	1,231	2,682	973	3,228
Ferrous Del/Sold	745	1,605	602	1,534
Fluff Returned to Landfill ⁽¹⁾	298	628	322	673
Bulky Waste Residue	1,688	4,949	1,631	2,662
RDF Yield	91.1 %	90.8 %	92.0 %	89.9 %

(1) – Fluff returned to the landfill represents gross tons delivered to the landfill from both RRT and GRE. GRE is billed by RRT for its share of ferrous fluff.

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new skirt boards on the MO22-A in feed conveyor on "A" line.
2. Installed new hammers in the "A" line flail mill.
3. Replaced the gear drive and chain on the "A" line primary disc screen.
4. Replaced the bearings on the "A" line primary disc screen.
5. Installed a new C-6 transfer conveyor belt on "A" line.
6. Patched the A-2 RDF compactor on "A" line.
7. Installed new hammers and roof flaps on the "B" line flail mill.
8. Replaced the MO22-B in feed conveyor on "B" line.
9. Installed a new head pulley drum on the "B" line aluminum separator.
10. Replaced the gear box on the "B" line aluminum separator.
11. Adjusted the air dam and flipped the hammers in the "B" line secondary shredder.

Respectfully:

Ryan Tritz
Doug Germain

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

January 2014

General

- Newport received 215 tons of MSW and processed on both lines New Years Day. This was approximately 200 tons less than New Years Day 2013.
- Newport met the landfill abatement.
- Production at the Wilmarth generating plant was on budget, however due to their annual maintenance on both units from January 2nd to January 31st they accepted only 1,409 tons.
- Production at the Red Wing generating plant was better than budget due to minimal down times reported. As a result, Newport shipped approximately 607 more tons to Red Wing than budgeted.
- All employees received Right To Know safety training.
- Newport returned to service the completely over hauled 2006 CAT 966-H loader.
- To help reduce plugging, Newport made modifications to the air dams to both the A and B line secondary shredders.
- Modifications to the A and B line aluminum separator dust collection were made to reduce the amount of paper in the bales.
- Newport performed a quarterly plant blown down the weekend of January 25th.

	<u>Jan 2013</u>	<u>YTD 2013</u>	<u>Jan 2014</u>	<u>YTD 2014</u>
MSW Received	27,100	27,100	29,259	29,259
MSW Processed	24,623	24,623	28,143	28,143
Total RDF Produced	22,280	22,280	24,877	24,877
RDF Red Wing	18,538	18,538	16,630	16,630
RDF Wilmarth	1,409	1,409	786	786
RDF GRE	2,333	2,333	7,461	7,461
Non-ferrous	33	33	78	78
Residue	1,451	1,451	2,255	2,255
Ferrous Del/Sold	860	860	932	932
Fluff Returned to Landfill ⁽¹⁾	330	330	355	355
Bulky Waste Residue	3,261	3,261	1,031	1,031
RDF Yield	90.5 %	90.5 %	88.3 %	88.3 %

(1) – Fluff returned to the landfill represents gross tons delivered to the landfill from both RRT and GRE. GRE is billed by RRT for its share of ferrous fluff.

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January 2014
Page Two

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Repaired the head pulley radius on the MO22-A in feed conveyor on "A" line.
2. Replaced a valve and repaired hydraulic leaks on the "A" line grapple crane.
3. Replaced keepers in the "A" line flail mill.
4. Installed new skirt boards on the C1-A transfer conveyor on "A" line.
5. Replaced bearings and repaired hydraulic leaks on the "A" line primary disc screen.
6. Repaired the air dams on the "A" line secondary shredder.
7. Replaced the hammers and spider caps in the "B" line flail mill.
8. Replaced rollers on the MO20-B in feed conveyor on "B" line.
9. Patched the chute on the "B" line magnetic separator.
10. Installed new hammers in the "B" line secondary shredder.

Respectfully:

Ryan Tritz
Doug Germain

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

July 2014

General

- Newport met the landfill abatement.
- July 4th Newport received 395 tons and processed on both lines for 8 hours. This was approximately 30 tons more than last year.
- Newport processed on the day shift all four Sunday's this month to maintain tipping floor levels and to fulfill Xcel demands for fuel.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was good with minimal down times reported for boiler tube repairs.
- Production at the Red Wing generating plant was good with down times report for boiler tube repairs, duct scrubber cleaning and substation work.
- A.E.S. was on site to perform 3rd quarter air sampling.
- All RRT Newport employees received Hearing and Respiratory tests this month.

	<u>July 2013</u>	<u>YTD 2013</u>	<u>July 2014</u>	<u>YTD 2014</u>
MSW Received	39,945	237,168	42,454	236,284
MSW Processed	38,009	220,469	35,852	214,076
Total RDF Produced	34,014	199,510	32,800	195,625
RDF Red Wing	18,435	110,332	17,293	94,983
RDF Wilmarth	15,579	85,420	15,507	88,838
RDF GRE	0	3,758	0	11,804
Non-ferrous	57	315	66	462
Residue	2,473	12,650	1,597	10,440
Ferrous Del/Sold	1,466	7,995	1,389	7,549
Fluff Returned to Landfill	205	1,452	197	1,675
Bulky Waste Residue	1,286	14,813	4,492	17,605
RDF Yield	89.4 %	90.4 %	91.4 %	91.3 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new hammers in the "A" flail mill.
2. Replaced the keepers in the "A" line flail mill.
3. Removed and replaced the wheels on the MO20-A in-feed conveyor on "A" line.
4. Repaired the "A" line MO22-A in-feed conveyor head pulley, skirt boards and installed new flytes .
5. Installed a new C11-A transfer belt on "A" line,
6. Replaced the magnetic separator bearings on "A" line.
7. Repaired all hydraulic leaks on the "A" line primary disc screen.
8. Installed new hammers and tensioned the belt on the "B" line flail mill.
9. Replaced pins and bearing bolts on the "B" line flail mill.
10. Installed new floor bolts to the "B" line flail mill.
11. Repaired the discharge chute and adjusted the flaps to the "B" line magnetic separator.
12. Replaced the front rollers in the "B" line primary disc screen.
13. Flopped the hammers and put weld build up on the on the "B" line secondary shredder.

Respectfully:
Doug Germain
Ryan Tritz

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

June 2014

General

- Newport met the landfill abatement goal.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was below average due to a scheduled quarterly maintenance outage, boiler tube, and C-9 ash conveyor repairs.
- Production at the Red Wing generating plant was slightly below average due to a scheduled quarterly maintenance outage and electrical sub station work. Stack performance testing was also completed on Unit # 1 this month.
- MSW Consultants were on site June 23rd through June 30th to perform a waste composition sort for the Ramsey/Washington Project Board.
- This month Newport had 26 hours of lost process time due to a failure of the B line flail mill motor.
- SHEEHY Construction cut out and repaired worn down sections of concrete on the tipping floor.
- All RRT Newport employees received fall protection safety training.

	<u>June 2013</u>	<u>YTD 2013</u>	<u>June 2014</u>	<u>YTD 2014</u>
MSW Received	33,732	197,223	34,707	193,830
MSW Processed	31,321	182,460	30,931	178,224
Total RDF Produced	27,207	165,496	27,983	162,825
RDF Red Wing	16,572	91,897	15,484	77,690
RDF Wilmarth	10,635	69,841	12,498	73,331
RDF GRE	0	3,758	0	11,804
Non-ferrous	60	258	61	396
Residue	2,900	10,177	1,784	8,843
Ferrous Del/Sold	1,154	6,530	1,103	6,160
Fluff Returned to Landfill ⁽¹⁾	347	2,014	373	2,207
Bulky Waste Residue	2,026	13,527	3,685	13,113
RDF Yield	86.8 %	90.6 %	90.5 %	91.3 %

(1) – Fluff returned to the landfill represents gross tons delivered to the landfill from both RRT and GRE. GRE is billed by RRT for its share of ferrous fluff.

Operating Report
June 2014
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Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new hammers in the "A" flail mill.
2. Replaced spyder caps and keepers in the "A" line flail mill.
3. Removed and replaced the C1-A transfer belt on "A" line.
4. Made belt repairs to the "A" line magnetic separator.
5. Installed new hammers in the "A" line secondary shredder.
6. Welded in a new back wall and repaired the air damn in the "A" line secondary shredder.
7. Replaced the head to the A-1 RDF compactor on "A" line.
8. Installed new hammers and tensioned the belt on the "B" line flail mill.
9. Replaced pins and bearing bolts on the "B" line flail mill.
10. Removed and installed a new motor to the "B" line flail mill.
11. Replaced the discharge flaps to the "B" line magnetic separator.
12. Repaired the chute to the "B" line primary disc screen.
13. Welded on new end disc's on the "B" line secondary shredder.

Respectfully:
Doug Germain

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

March 2014

General

- Newport met the landfill abatement.
- Production at the Wilmarth generating plant was very good with minimal down times reported for C-9 ash conveyor repairs, bag house repairs and a plugged ash hopper.
- Production at the Red Wing generating plant was below average due to the annual maintenance and turbine over haul on unit # 1. Unit # 1 remained down the entire month due to extra needed repairs to the turbine.
- Newport had forty nine (49) hours of lost process time due to lack of burn space.
- All RRT Newport employees received safety training for house keeping, combustible dust and pressure vessels. Employees also received Harassment and Bullying training this month.
- Maintenance mechanics were in on one (1) Sunday day shift to replace all hydraulic lines and cylinders on the “B” line grapple crane.
- On 3/15/14, the City of St. Paul shut all water off to the facility to repair a broken water main valve which resulted in ten (10) hours of lost process time. Newport processed on one (1) line on 3/16/14 during the day to maintain fuel levels to the Wilmarth generating plant.

	<u>Mar 2013</u>	<u>YTD 2013</u>	<u>Mar 2014</u>	<u>YTD 2014</u>
MSW Received	29,636	82,367	28,389	81,231
MSW Processed	28,177	75,477	28,288	76,812
Total RDF Produced	25,914	68,860	26,534	70,170
RDF Red Wing	12,580	36,442	7,058	31,492
RDF Wilmarth	13,333	28,661	16,949	27,821
RDF GRE	0	3,758	2,527	10,857
Non-ferrous	22	90	64	190
Residue	1,268	3,950	810	4,038
Ferrous Del/Sold	973	2,578	880	2,414
Fluff Returned to Landfill ⁽¹⁾	307	935	371	1,044
Bulky Waste Residue	2,336	7,285	2,005	4,667
RDF Yield	91.9 %	91.2 %	93.7 %	91.3 %

(1) – Fluff returned to the landfill represents gross tons delivered to the landfill from both RRT and GRE. GRE is billed by RRT for its share of ferrous fluff.

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Removed and replaced skirt boards on the MO22-A in-feed conveyor on "A" line.
2. Installed new hammers in the "A" line flail mill.
3. Installed new belt splices on the C1-A transfer conveyor on "A" line.
4. Replaced the head pulley bearings on the "A" line magnetic separator.
5. Began installing a new chute from C4-A to the "A" line aluminum separator.
6. Installed new hammers in the "A" line secondary shredder.
7. Repaired the skirt boards on the "A" line MO-22 in-feed conveyor.
8. Replaced all hydraulic hoses and cylinders on the "B" line grapple crane.
9. Replaced the lower grates and side liners on the "B" flail mill.
10. Tensioned the belt and flopped the hammers in the "B" line flail mill.
11. Replaced the gear box on the "B" line magnetic separator.
12. Adjusted the air dam and flopped the hammers in the "B" line secondary shredder.
13. Installed shims to the "B" line secondary shredder.
14. Replaced the sliders to the B-2 RDF compactor on "B" line
15. Replaced the ladder to C-12 magnetic separator area.
16. Repaired the water deluge system on the tipping floor.

Respectfully:

Doug Germain

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

May 2014

General

- Newport met the landfill abatement.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was very good with minimal down times.
- Production at the Red Wing generating plant was below average due to a leaky boiler tube, C-7 ash conveyor repairs and duct scrubber cleaning. On May 19th the plant sub station experienced a lightning strike which took both units out of service for 10 days. Several electric motors and the associated wiring needed replacement. Unit #2 was back in service on May 23rd and Unit #1 was back in service on May 29th.
- On Memorial Day, Newport received three hundred and forty nine (349) tons of MSW and processed on both lines for 8 hours during the day shift.
- All RRT Newport employees received safety training for fire protection, fire extinguishers and hot work permits.

	<u>May 2013</u>	<u>YTD 2013</u>	<u>May 2014</u>	<u>YTD 2014</u>
MSW Received	42,093	163,490	39,691	159,123
MSW Processed	38,810	151,139	35,584	147,293
Total RDF Produced	35,039	138,290	32,189	134,842
RDF Red Wing	19,634	75,325	14,993	62,206
RDF Wilmarth	15,406	59,206	17,197	60,833
RDF GRE	0	3,758	0	11,804
Non-ferrous	44	198	70	335
Residue	2,182	7,277	1,939	7,059
Ferrous Del/Sold	1,535	5,376	1,386	5,057
Fluff Returned to Landfill ⁽¹⁾	364	1,666	366	1,834
Bulky Waste Residue	2,298	11,501	2,771	9,428
RDF Yield	90.2 %	91.9 %	90.3 %	91.5 %

(1) – Fluff returned to the landfill represents gross tons delivered to the landfill from both RRT and GRE. GRE is billed by RRT for its share of ferrous fluff.

Operating Report
May 2014
Page Two

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Replaced wheels and saddles on the MO-20 in-feed conveyor on "A" line.
2. Flopped the hammers and replaced the speed sensor on the "A" flail mill.
3. Replaced the base bolts and repaired roof vent on the "A" line flail mill.
4. Installed a new belt splice on the C2-A transfer conveyor on "A" line.
5. Repaired the discharge chute on the "A" line magnetic separator.
6. Replaced speed sensor to the "B" line MO-22B in-feed conveyor on "B" line.
7. Installed new hammers and tensioned the drive belt on the "B" line flail mill.
8. Replaced the lower wear plates in the "B" line flail mill.
9. Replaced the grease lines on the "B" line primary disc screen.
10. Cleaned the bags on the "B" line dust collection.
11. Installed new hammers in the "B" line secondary shredder.
12. Replaced the spyder caps and put weld build up in the "B" line secondary shredder.

Respectfully:
Doug Germain

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

November 2014

General

- Newport met the landfill abatement goal.
- On Thanksgiving, Newport received 178 tons of MSW and processed on both lines for 8 hours. Newport also processed 3 out of 4 Sunday's day shifts to keep up with Xcel fuel demands.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was above average with minimal down times for boiler tube repairs, screw feeder repairs and condenser cleaning.
- Production at the Red Wing generating plant was below average due to scalping conveyor repairs, walking floor cylinder replacement, C-4 ash conveyor repairs, duct scrubber cleaning and reduced loads due to HCL issues on Unit #2.
- All RRT Newport employees received heavy equipment safety training this month.

	<u>Nov 2013</u>	<u>YTD 2013</u>	<u>Nov 2014</u>	<u>YTD 2014</u>
MSW Received	34,596	376,547	31,411	380,759
MSW Processed	33,248	349,238	30,471	344,105
Total RDF Produced	30,620	316,960	28,299	313,809
RDF Red Wing	17,750	175,080	15,546	158,269
RDF Wilmarth	12,870	135,977	12,753	143,736
RDF GRE	0	5,903	0	11,804
Non-ferrous	47	533	52	705
Residue	1,299	18,734	989	17,069
Ferrous Del/Sold	1,280	13,011	1129	12,522
Fluff Returned to Landfill	222	2,264	214	2,590
Bulky Waste Residue	1,162	22,922	2,656	30,825
RDF Yield	92.0 %	90.7 %	92.8 %	91.1 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Flopped the hammers and replaced the lower grates in the "A" line flail mill.
2. Installed a new keepers, spyder caps and bearing bolts in the "A" line flail mill.
3. Replaced the spyder caps and repaired the cover grates on the "A" line flail mill.
4. Replaced skirt boards and flytes on the MO-20A in-feed conveyor.
5. Completed repairs the MO-22A in-feed conveyor head pulley.
6. Repaired an 80 foot rip in the C-1A transfer belt on "A" line.
7. Flopped the hammers and repaired the air dams in the "B" line secondary shredder.
8. Installed new hammers twice in "B" line flail mill.
9. Installed new belly pans on the MO22-B in-feed conveyor on "B" line.
10. Changed out the rotor and cooling unit in the "B" line secondary shredder.
11. Repaired the M120-B aluminum separator on "B" line.
12. Made adjustments to the air dam on the "B" line secondary shredder.
13. Replaced the sprinkler heads in the ferrous load out bays.
14. Repaired the belt on the Bulky Waste load out conveyor.
15. Winterized all mobile equipment.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

October 2014

General

- Newport met the landfill abatement goal.
- Newport processed one extra Sunday shift to maintain the tipping floor levels and to provide more fuel to Xcel.
- There were a total of 4 explosions in the hammer mills this month. 2 small explosions on “A” line that caused no damage to equipment. There was 1 small explosion with no damage on “B” line and 1 that caused damage to the discharge chute, tail pulley and roof flaps. This line was back up and functional after 2 hours of repairs.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was good with minimal down times for Unit # 1 generator repairs.
- Production at the Red Wing generating plant was below average due to a scheduled quarterly maintenance outage and reduced loads due to HCL issues on Unit #2.
- All RRT Newport employees received ergonomics and fork lift safety training this month.

	<u>Oct 2013</u>	<u>YTD 2013</u>	<u>Oct 2014</u>	<u>YTD 2014</u>
MSW Received	36,606	341,951	39,320	349,348
MSW Processed	32,968	315,993	35,003	313,636
Total RDF Produced	30,067	286,340	31,645	285,510
RDF Red Wing	17,686	157,330	16,337	142,723
RDF Wilmarth	11,942	123,107	15,308	130,983
RDF GRE	439	5,903	0	11,804
Non-ferrous	69	486	63	653
Residue	1,519	17,435	1,895	16,080
Ferrous Del/Sold	1,314	11,731	1,398	11,393
Fluff Returned to Landfill	223	2,042	266	2,376
Bulky Waste Residue	2,344	21,760	3,344	28,169
RDF Yield	91.1 %	90.6 %	90.4 %	91.1 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Installed new hammers and replaced the dribble chute plate in the "A" line flail mill.
2. Installed a new bunker door to the "A" line flail mill.
3. Replaced the spyder caps and repaired the cover grates on the "A" line flail mill.
4. Replaced the stairs to the MO-20A in-feed conveyor pit.
5. Repaired the MO-22A in-feed conveyor head pulley and skirt boards.
6. Welded the rotor and end disc's on the "A" line secondary shredder.
7. Installed new poly liners on the A-1 & A2 RDF compactors on "A" line.
8. Replaced the rotary air valve on the "A" line cyclone dust collector.
9. Installed new hammers and repaired all 3 plug busters in the "B" line flail mill.
10. Repaired the head radius, chain and chain guard on the "B" line MO-22B in-feed conveyor.
11. Installed a new belt to the C-9B transfer belt on "B" line.
12. Repaired all hydraulic leaks on the "B" line primary disc screen.
13. Replaced the B-1RDF compactor wheels on "B" line.
14. Installed a belt splice and repaired rollers on the C-12 magnetic separator.
15. Replaced the diverter gate and repaired the compactor chutes on the Bulky Waste load out conveyor.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

September 2014

General

- Newport met the landfill abatement goal.
- Labor Day Newport received 534 tons of MSW and processed on both lines for 8 hours. This was approximately 143 tons less than in 2013.
- Non Ferrous recovery continues to exceed prior years.
- Production at the Wilmarth generating plant was below average due to a scheduled quarterly maintenance outage, C-9 ash conveyor repairs and the generator tripping off line on Unit #1.
- Production at the Red Wing generating plant was below average due to a scheduled quarterly maintenance outage, screw feeder repairs, duct scrubber cleaning.
- All RRT Newport employees received fire safety training this month.

	<u>Sept 2013</u>	<u>YTD 2013</u>	<u>Sept 2014</u>	<u>YTD 2014</u>
MSW Received	31,643	305,345	37,094	310,028
MSW Processed	28,950	283,025	31,794	278,636
Total RDF Produced	26,043	256,273	28,368	253,865
RDF Red Wing	10,528	139,644	16,068	126,386
RDF Wilmarth	13,907	111,165	12,300	115,675
RDF GRE	1,608	5,464	0	11,804
Non-ferrous	42	419	65	590
Residue	1,786	15,916	2,125	14,185
Ferrous Del/Sold	1,080	10,418	1,236	9,995
Fluff Returned to Landfill	129	1819	179	2110
Bulky Waste Residue	2,872	19,416	3,460	24,826
RDF Yield	89.9 %	90.5 %	89.2 %	91.3 %

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Flopped hammers and repaired the dribble chute in the "A" flail mill.
2. Installed lower grates and keepers in the "A" line flail mill.
3. Replaced the spyder caps and repaired the cover grates on the "A" line flail mill.
4. Repaired the MO20 & MO22A in-feed conveyors on "A" line.
5. Replaced the flaps to the "A" line magnetic separator.
6. Installed new hammers in the "A" line secondary shredder.
7. Built up welds on the end discs and replaced the cover pins on the "A" line secondary shredder.
8. Replaced the A-2 RDF sliders and wheels on "A" line.
9. Installed new hammers in the "B" line flail mill.
10. Replaced the end caps in the "B" line flail mill.
11. Installed a belt splice on the "B" line magnetic separator.
12. Installed new hammers and welded the end disc's in the "B" line secondary shredder.
13. Replaced the B-1 compactor scissors on "B" line.

Respectfully:
RRT Management

RAMSEY/WASHINGTON RESOURCE RECOVERY FACILITY

OPERATING REPORT

September 2015

General

- Newport met the landfill abatement.
- To keep up with the Xcel fuel demand Newport processed one extra Sunday day shift. This kept the tipping floor manageable and the barns full at both plants. Newport also received 520 tons of MSW and processed on both lines for 8 hours on Labor Day.
- Production at the Wilmarth generating plant was above budget with the only down times reported for a planed quarterly maintenance outage.
- Production at the Red Wing generating plant was slightly above budget even with down times reported for minor repairs to the boiler tubes, F.D. air fan, scalping conveyor, and to repair an auxiliary oil pump on the #1 turbine.
- Newport had a great attendance for the annual appreciation picnic which was held on September 17th, 2015.
- All RRT Newport employees received First Aid/CPR and fire training.

	<u>Sept 2014</u>	<u>YTD 2014</u>	<u>Sept 2015</u>	<u>YTD 2015</u>
MSW Received	37,094	310,016	36,876	313,957
MSW Processed	31,794	278,636	33,895	287,911
Total RDF Produced	28,368	253,865	31,117	264,347
RDF Red Wing	16,068	126,386	18,437	142,138
RDF Wilmarth	12,300	115,675	12,680	114,416
RDF GRE	0	11,804	0	7,793
Non-ferrous	54	553	71	598
Residue	2,125	14,185	1,509	12,470
Ferrous Del/Sold	1,236	9,995	1,192	10,525
Fluff Returned to Landfill	357	2,111	300	1,727
Bulky Waste Residue	3,460	24,826	2,526	20,139
RDF Yield	89.2 %	91.3 %	91.7 %	91.8 %

September 2015

Page Two

Operating/Maintenance Report

In addition to routine and preventative maintenance activities, the following notable work was accomplished this month:

1. Repaired the steel floor apron and replaced skirt boards on the MO20-A in-feed conveyor on "A" line.
2. Replaced skirt boards, pans, saddles and repaired the tail pulley diaper on the MO22-A in-feed conveyor on "A" line.
3. Installed new hammers and wear plates on the "A" line flail mill.
4. Repaired the roof membrane on the "A" line flail mill.
5. Repaired the "A" line bunker doors.
6. Installed a new tail pulley on the C3-A transfer conveyor on "A" line.
7. Changed out the "A" line secondary shredder rotor and installed new hammers.
8. Repaired the C6-A RDF steel chutes on "A" line.
9. Replaced the chain guards on the MO22-B in-feed conveyor on "B" line.
10. Installed new hammers and keepers in the "B" line flail mill.
11. Tightened the base bolts and repaired the head pulley on the "B" line flail mill.
12. Repaired the main boom on the "B" line grapple crane.
13. Replaced the "B" line magnetic separator conveyor and installed a new discharge chute.
14. Repaired the eddy current discharge chute on "B" line.
15. Installed new hammers in the "B" line secondary shredder.

Respectfully:

RRT Management

Appendix B
TKDA Meeting Summary Memorandum



Memorandum

Foth Infrastructure & Environment, LLC
Eagle Point II • 8550 Hudson Blvd. North, Suite 105
Lake Elmo, MN 55042
(651) 288-8550 • Fax: (651) 288-8551
www.foth.com

October 2, 2015

TO: Zack Hansen, Judy Hunter, and Kate Bartelt
Ramsey/Washington Recycling and Energy Board (Board)
Joint Staff Committee

CC: Warren Shuros and Jennefer Klennert,
Foth Infrastructure & Environment, LLC (Foth)

FR: Curt Hartog and Nathan Klett, Foth

RE: Summary for TKDA Software Meeting.

The following summary is being provided to document the meeting between RRT, TKDA, Foth and Ramsey County regarding the machine control programming at the Newport Resource Recovery Facility. The meeting was held on October 2, 2015 from 10:30 am to 12:00 pm at the Newport Resource Recovery Facility (Newport Facility) conference room. Those present at the meeting included:

- ◆ Jennefer Klennert – Foth
- ◆ Nathan Klett – Foth
- ◆ Curt Hartog – Foth
- ◆ Ryan Howell – RRT
- ◆ H. Lee Holden – Ramsey County
- ◆ Kenneth Snyder – TKDA

The meeting began with introductions and a general overview of the software and hardware used to control and monitor various equipment for the RDF process at the Newport Facility. The last upgrade to the programming was completed in 2004/2005 when RSView 32 was installed. Programming is completed using Control Logix software and HMI for interface to the monitors. A Rockwell Operating Software upgrade to the firmware was completed in 2013.

Basically, sensors and controls are routed to an I/O switch which is monitored and processed by a PLC control system. The PLCs used for the system are Allen Bradley PLCs. Allen Bradley is a well-established company and Allen Bradley PLCs are used worldwide to control plant equipment. The PLC system is connected to the monitors to

provide a visual reference and establish alarms and automatic shut downs based on programmed logic. There is not a “master” book that contains all the logic paths, alarm limits, etc. There is a diagram in the data room that can be accessed, but we are not sure how current that diagram is to the existing system.

There are three computers in the plant that monitor the A and B line equipment inputs from the plant. One computer is in the control room and one computer for each for the supervisor stations. All three computers are independent work stations and none of them are connected to the Internet. Therefore, the likelihood of a virus or worm entering the control system is remote. Programming is also stored on the electrician’s computer that runs continuously as well. This computer is used by the electrician to troubleshoot sensor or power issues and repair them. Ken estimated there are more than 1,000 I/O inputs to the system at RRT. Currently the system in the control room has an uninterruptable power supply (UPS).

Historical data pertaining to several pieces of equipment are stored on each computer and overwritten periodically (every 30 days). Lee suggested the computers in the control room should probably be server grade so more robust backups can periodically be completed. Currently, there are no established back up procedures for the data coming into the control room. Typically, data older than 30 days is not accessed to troubleshoot a problem. Therefore, the 30 day backup may be sufficient for operating the plant. There are backup components for the control system in the control room. Extra PLCs and I/O switches can easily and quickly be replaced in the control room. However, there has not been an establish protocol to upgrade the back up PLC when the active PLC is upgraded. This is something that should be documented. Changing sensors that are no longer functional may take a while longer. However, the sensors used are common industry sensors and do not require long lead times to obtain. Allen Bradley has all the components used in the Newport Facility and most components can be obtained the same day.

Ken indicated the next software upgrade would be RSView SE. This is a 64 bit system that is recommended to be installed in 3 to 5 years. Ken also indicated he is training additional electrical engineering designers to replace him in the future. Ken will be available during the transitions and desires to continue a business relationship with the new Owner of the Newport Facility.

Appendix C
Spare Parts Inventory

Spare Parts Inventory
Ramsey/Washington
Project# 15R002

Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
ACTRREDDY001	7210TW00A-02822L0-TB12, WEATHERPROOF ACTUATOR	3,141.50	1	3,141.50	3,141.50	1	3,141.50
ARMMMGRPC001	18300176, LH GRAPPLE ARM	1,347.02	1	1,347.02	1,347.02	0	0.00
ARMMMGRPC002	18300177, RIGHT HAND GRAPPLE ARM WELDMENT	1,347.02	1	1,347.02	1,347.02	0	0.00
ASSYYAPRC002	TAILSHAFT ASSY 3-7/16" DIA - SEE NOTES	4,137.50	1	4,137.50	4,137.50	1	4,137.50
ASSYYFLAM002	JACK SHAFT ASSEMBLY - COMPLETE - NOTES SHOW DETAIL	6,742.19	1	6,742.19	6,742.19	1	6,742.19
BAGGGDUST003	DUST COLLECTION, FCI FILTER TUBE BAG, 5-1/2 ROUND	13.19	960	12,662.40	13.19	960	12,662.40
BAGGGDUST004	DUST COLLECTION, FCI MATERIAL BAG, 9 15/16 X 37 11	133.46	20	2,669.20	133.46	20	2,669.20
BLTGGCONVC01	C-1 BELT, 72" X 310', 600PIW, 3/16 X 3/32 MSHA	31,871.12	2	63,742.24	31,871.12	2	63,742.24
BLTGGCONVC02	C-2 BELT, 72" X 108,375# PLYLON PLUS MSHA - Notes	9,444.60	1	9,444.60	8,483.51	2	16,967.02
BLTGGCONVC03	C-3 BELT, 72" X 105, 375#	4,114.49	1	4,114.49	4,114.49	1	4,114.49
BLTGGCONVC04	C-4 BELT, 60" X 110', 375 PLY - MSHA 3/16 X 1/16	6,821.28	1	6,821.28	6,821.28	1	6,821.28
BLTGGCONVC05	60", 144' C-5, 3PLY, 375 PLYLON 3/16 X 1/16	10,767.83	1	10,767.83	10,767.83	1	10,767.83
BLTGGCONVC06	72" x 213' 330# 3/16 x 3/32 US-FLEX POWERGUARD	17,553.64	1	17,553.64	17,553.64	0	0.00
BLTGGCONVC06	C-7 BELT, 36" X 47" 375 PLY - MSHA 3/16 X 1/16	968.20	1	968.20	968.20	0	0.00
BLTGGCONVC10	36" X 162' 3 PLY 375# 3/16 X 3/32	5,767.38	1	5,767.38	5,767.38	1	5,767.38
BLTGGCONVC11	36" X 146' C11 A & B CONVEYOR BELTING	5,744.81	1	5,744.81	5,744.81	0	0.00
BLTGGCONVC12	36" X 145 3 PLY 375 GOODYEAR 3/16 X 1/16 slider	3,789.24	1	3,789.24	3,639.12	2	7,278.24
BLTGGCONVC32	24" X 116' 3/16 X 1/16 MSHA - C32 & C132	21.39	116	2,481.24	21.39	116	2,481.24
BLTGGCONVC7-8	C-7 & C-8, 36" X 47' 375 PLY - MSHA 3/16 X 1/16	1,506.89	3	4,520.67	1,506.89	3	4,520.67
BLTGGCONVC9A	36" X 200 330# 3/16 X 1/16 MSHA MINEHAUL	7,588.33	1	7,588.33	7,588.33	0	0.00
BLTGGCONVC9B	C-9B BELT, 36" X 215', 375 PLY - MSHA 3/16 X 3/32	7,027.36	2	14,054.72	7,637.06	1	7,637.06
BLTGGCONVM075	48" X 22' 3.375 POWERGUARD 3/16 X 3/32 330# - NOTE	1,364.30	1	1,364.30	1,364.30	1	1,364.30
BLTGGCONVMAG	66" X 36' 3-375 MSHA 3/16 X 3/32 - NOTES	2,605.11	1	2,605.11	2,703.08	2	5,406.16

Spare Parts Inventory
Ramsey/Washington
Project# 15R002

Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
BLTGGEDDY001	EDDY CURRENT CONVEYOR BELTING	3,923.07	1	3,923.07	3,384.15	1	3,384.15
BRAKRCONV001	HMCP015EOC, 15AMP CIRCUIT BREAKER	737.06	1	737.06	797.99	2	1,595.98
BRGGGAPRC006	AMP-5507-F, BEARING, HVY DTY PIL BLK W/TWO OPEN	2,380.00	1	2,380.00	2,380.00	1	2,380.00
BRGGGAPRC007	BMPS5407YF, PILLOW BLOCK BEARING HEAVY DUTY EXP	1,332.58	1	1,332.58	1,332.58	1	1,332.58
BRGGGAPRC009	BMPS-5507-F, BEARING, HVY DUTY PIL BLK W/TWO AU	2,765.00	2	5,530.00	2,765.00	1	2,765.00
BRGGGARPC010	AMP5407YF, PILLOW BLOCK BEARING FIXED HEAVY DUT	2,322.28	2	4,644.56	1,161.14	1	1,161.14
BRGGGCONV002	DSB22455H, 3-7/16 TAKEUP BEARING - C2	859.80	1	859.80	894.18	2	1,788.36
BRGGGCONV026	PLB6863FR, PILLOW BLOCK, 4 BOLT, FIXED 3-15/16	918.02	1	918.02	918.02	1	918.02
BRGGGFLAM001	23252CAMKE4C3P55S-01 TAPER BORE #10 2L LUBE	4,030.00	1	4,030.00	4,030.00	1	4,030.00
CAPPPFLAM002	A01523A, END DISC CAP, 16 PER SET	49.07	64	3,140.48	51.95	65	3,376.75
CAPPPFLAM003	AH0104C, SPIDER ROTOR CAPS, 24 PER SET	167.09	85	14,202.65	157.23	112	17,609.76
CARTDDISC001	02-102554, 35 GPM CARTRIDGE	764.22	1	764.22	764.22	1	764.22
CHAINAPRC001	R2397-M14, CHAIN - ORDER IN 10' MATCHED SECTIONS	47.05	60	2,823.00	56.44	409	23,083.96
CHAINDISC007	120HRIV X 37 PITCHES, #120 CHAIN - PRIMARY - NOTES	144.63	21	3,037.23	144.63	8	1,157.04
CHAINDUST009	127725, 80 RIV ROLLER CHAIN - 10' LENGTH	15.55	1	15.55	15.55	5	77.75
CLAWWGRPC001	18300176, LH GRAPPLE CLAW	Not on List			2,133.20	1	2,133.20
CLAWWGRPC002	18300177, RH GRAPPLE CLAW	Not on List			2,133.20	1	2,133.20
COILLFLAM001	2147A48G11, COIL FOR 4160 BREAKES	598.13	1	598.13	598.13	1	598.13
COPLRFLAM001	NB1-ICSS-14U-02RP, TYPE J THERMOCOUPLE	39.05	1	39.05	39.05	6	234.30
COPLRSHRD001	NB1-ICSS-14U-07RP, TYPE J THERMOCOUPLE	35.00	6	210.00	35.00	3	105.00
CPCTRBDM001	2GUA079200D220, CAPACITORS	1,045.25	2	2,090.50	1,045.25	2	2,090.50
CPLNGDISC006	1100T, MAIN DRIVE COUPLING FOR DISC SCREENS	1,154.11	1	1,154.11	1,154.11	2	2,308.22
CPLNGDUST009	351DBZ, PROCESS DUST COLLECTION MAIN BLOWER COUPL.	1,045.25	2	2,090.50	1,045.25	2	2,090.50
CPLNGSHRD015	1130T10, SEC SHRED MOTOR COUPLER HALF	531.00	2	1,062.00	531.00	1	531.00
CPLNGSHRD020	1130T10, SHREDDER SIDE COUPLER SEE NOTES	746.01	1	746.01	722.40	1	722.40
CYLLCCOM001	CYLINDER - COMPACTOR SCISSORS - BWR/RES/RDF	652.80	1	652.80	652.80	1	652.80

Spare Parts Inventory
Ramsey/Washington
Project# 15R002

Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
CYLLCCOM002	COMPACTOR CYLINDER - REBUILT - LARGE	5,003.40	1	5,003.40	4,461.82	1	4,461.82
CYLLFLAM001	FLAIL MILL COVER HYDRAULIC CYLINDER - REBUILD RRT	652.80	1	652.80	652.80	1	652.80
CYLLYARM003	122261, DURA-RIDE LIFT CYLINDER - SEE NOTES	652.80	1	652.80	652.80	1	652.80
CYLLYARM007	119235 , 5TH WHEEL LIFT CYLINDER YT#802	934.52	1	934.52	934.35	1	934.35
DIVIDDISC001	FLOW DIVIDER DISC SCREEN - REBUILT	1,630.80	0	0.00	1,630.80	1	1,630.80
ELMNTFLAM001	011124, PX240 PARA-FLEX ELEMENT - NEW STYLE	652.80	1	652.80	652.80	1	652.80
FANNNFLAM001	MOTOR VENT FAN - FLAIL MILL	1,800.00	0	0.00	1,800.00	1	1,800.00
FINGRFLAM001	2147A47G23, LINE/LOAD FINGERS, 4160 BREAKERS 6 PER	919.71	3	2,759.13	919.71	3	2,759.13
FUSEBLDM001	NXCFA5J45, 8.3KV 47 AMP TYPE COL-FUSE - See notes	202.74	7	1,419.18	202.74	7	1,419.18
FUSEFLAM006	5ACLS-12R LIMIT FUSE 5.08 MAX KV CLS 1	704.70	8	5,637.60	631.57	6	3,789.42
FUSESHRD001	5ACLS-9R, CURRENT-LIMIT FUSE FOR SHREDDER	795.00	14	11,130.00	795.00	13	10,335.00
GRATEFLAM001	603271-A, FLAIL MILL GRATE W/OUT EXTRA RIB - 2 per	3,766.40	4	15,065.60	3,768.60	4	15,074.40
GRATEFLAM002	603781, FLAIL MILL GRATE WITH EXTRA RIB - 1 per	5,846.65	2	11,693.30	4,676.49	2	9,352.98
GRATESHRD001	603273, SECONDARY SHREDDER GRATES	4,743.11	6	28,458.66	4,597.90	6	27,587.40
GRDCRCONV002	2402B0250C180, ROTARY VALVE AND SCREW CONVEYORS	704.49	1	704.49	704.49	1	704.49
GRDCREDDY001	EUR*SA67DRE100L4, COMPLETE WITH MOTOR SEE NOTES	1,291.64	1	1,291.64	1,291.64	1	1,291.64
HAMMRFLAM001	AH0019B-10, FLAIL MILL HAMMERS	265.25	264	70,026.00	257.45	372	95,771.40
HAMMRSHRD003	AH0020, SECONDARY SHREDDER HAMMERS	141.85	288	40,852.80	139.04	192	26,695.68
HINGEFLAM001	8700-005, FLAIL MILL BLAST DOOR HINGE	690.00	3	2,070.00	690.00	1	690.00
HOSNGCONV001	PLB6855R, 2 BOLT HOUSING - 3-7/16 BEARING INSERT	814.74	2	1,629.48	814.74	2	1,629.48
HOSNGFLAM001	044034, HOUSING FOR 4-15/16 PB BEARING JACKET SHAFT	469.32	2	938.64	469.32	1	469.32
HPINNFLAM001	HAMMER SUSPENSION PIN, INDUSTRIAL WELDORS - NOTES	774.20	20	15,484.00	792.55	8	6,340.40
HPINNSHRD002	HAMMER PIN, SECONDARY SHREDDER	379.83	6	2,278.98	412.18	13	5,358.34
IDLERCONV001	72", D5-35TE-72SB, 35 DEGREE TROUGH IDLER-REGULAR	200.00	12	2,400.00	264.17	9	2,377.53
IDLERCONV004	36", D5-35TE-36SB, 35 DEGREE TROUGHING CEMA D 5"	180.48	1	180.48	207.38	14	2,903.32
IDLERCONV005	36", D5-35TEI-36SB, 35 DEGREE IMPACT CEMA D 5"	569.94	8	4,559.52	332.59	12	3,991.08

Spare Parts Inventory
Ramsey/Washington
Project# 15R002

Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
IDLERCONV006	36D5043FS, RUBBER DISC RETURN CEMA D 5" ROLL	238.73	5	1,193.65	238.73	0	0.00
IDLERCONV007	72", D5-20TE-72SB, 20 DEGREE TROUGHING CEMA D	282.86	7	1,980.02	282.86	7	1,980.02
IDLERCONV008	60",60GD530101, 35 DEGREE TROUGHING CEMA D- UNEQUA	386.50	7	2,705.50	386.50	2	773.00
IDLERCONV009	72", 78AH62-72S, 6" X 72" DISC SEALED RETURN IDLER	170.20	0	0.00	170.20	6	1,021.20
IDLERCONV012	72D5302, 72" 35 DEGREE TROUGHING-RUBBER-IMPACT	557.93	5	2,789.65	557.93	0	0.00
IDLERCONV015	60", 60-GD5043-02, CEMA D 5" RUBBER DISC RETURN	302.88	7	2,120.16	338.53	5	1,692.65
IDLERCONV017	72", D5-35TESA-72SB, 35 DEG. SELF-ALIGN TROUGHING	Not on List			696.77	2	1,393.54
IDLERMAGN001	869XT25X2-7/16, TOP IDLER 2-7/16 X 8 X 69"	645.00	2	1,290.00	645.00	1	645.00
INSLRBLDM002	PORCELAIN INSULATORS - 15KV - INDOOR	44.97	17	764.49	44.97	17	764.49
INSRTDISC003	2307U78, STEEL INSERT FOR 3-7/16 REX BEARING	542.76	32	17,368.32	574.10	10	5,741.00
JOYSTGRPC001	22100144, COMPLETE JOYSTICK ASSEMBLY	1,106.70	1	1,106.70	1,106.70	0	0.00
KITTTSHRD001	0776212, COVER, GRID & SEALS FOR 1130T FALK - NOTE	712.79	2	1,425.58	712.79	1	712.79
KITTTYARM001	RK-351-03505, COMPLETE 5TH WHEEL REBUILD KIT	680.69	2	1,361.38	680.69	0	0.00
LGEARTRAILER002	XA-S8-3A114-MOD, GEAR SIDE LANDING GEAR	Not on List			756.71	5	3,783.55
LINERFLAM010	10, INDUSTRIAL WELDORS, 1-1/2 T-1 TYPE B	218.00	14	3,052.00	218.00	14	3,052.00
LINERFLAM011	238638, BOTTOM CENTER SIDE LINER	347.90	9	3,131.10	347.90	9	3,131.10
LINERFLAM012	12, INDUSTRIAL WELDORS 1-1/2" T-1 TYPE B	274.40	9	2,469.60	274.40	5	1,372.00
LINERFLAM013	13, INDUSTRIAL WELDORS, LOWER GRATE KEEPER - NOTES	342.32	9	3,080.88	347.44	19	6,601.36
LINERFLAM014	14 INDUSTRIAL WELDORS, LOWER GRATE KEEPER - NOTES	307.70	11	3,384.70	308.70	20	6,174.00
LINERFLAM015	15, INDUSTRIAL WELDORS, TOP GRATE KEEPER - NOTES	133.61	20	2,672.20	154.17	17	2,620.89
LINERFLAM016	16, INDUSTRIAL WELDORS, TOP GRATE KEEPER - NOTES	130.30	18	2,345.40	130.30	14	1,824.20
LINERFLAM017	17, INDUSTRIAL WELDORS, 1-1/2" T-1 TYPE B	173.00	7	1,211.00	173.00	7	1,211.00
LINERFLAM018	18, INDUSTRIAL WELDORS, 1-1/2" T-1 TYPE B	282.74	18	5,089.32	282.74	19	5,372.06
LINERFLAM019	19, INDUSTRIAL WELDORS, 1-1/2" T-1 TYPE B	252.81	11	2,780.91	252.81	11	2,780.91
LINERFLAM020	20 INDUSTRIAL WELDORS, 1-1/2" T-1 TYPE B	339.83	12	4,077.96	339.83	12	4,077.96
LINERFLAM021	21, UPPER WEAR PLATE, 2" T-1 TYPE B	565.38	7	3,957.66	653.65	12	7,843.80

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Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
LINERFLAM022	22, LOWER WEAR PLATE 2" AR400 X 15" X 36 3/4	853.91	14	11,954.74	853.91	10	8,539.10
LINERSHRD004	1" T1 X 12-1/2" X 19.5" PLATES W/HOLES	362.60	8	2,900.80	362.60	5	1,813.00
LINERSHRD005	E9790.053, FRONT MILL SIDE LINER (Print #5)	833.00	6	4,998.00	833.00	6	4,998.00
LINERSHRD006	E9790.052, CENTER MILL SIDE LINER (Print #6)	1,388.00	6	8,328.00	1,388.00	4	5,552.00
LINERSHRD007	E9790.051, FRONT COVER SIDE LINER (Print #7)	1,274.00	4	5,096.00	1,274.00	3	3,822.00
LINERSHRD010	NF221XH, #10 COVER CROSS (MANG) (Print #10)	277.00	15	4,155.00	277.00	11	3,047.00
LINERSHRD011	BC420H, FRONT STEP-OFF COVER CROSS (Print #11)	358.00	12	4,296.00	358.00	12	4,296.00
LINERSHRD050	#50, SEC SHREDDER GRATE KEEPER	368.00	6	2,208.00	350.77	7	2,455.39
MOTORAIRK002	M7736, 50 HP - 1800 RPM- 230/460V 326T TEFC	1,900.80	1	1,900.80	1,900.80	0	0.00
MOTORAIRK003	326TTFS6526, 50HP 460V ONLY - RELIANCE	3,247.20	1	3,247.20	1,696.86	1	1,696.86
MOTORAPRC003	20-3025MF, HYDRAULIC TRANSMISSION MOTOR	695.00	2	1,390.00	1,059.50	2	2,119.00
MOTORCCOM004	51392587, 60 HP 1800 RPM 3 PHASE 230/460	1,734.61	1	1,734.61	1,734.61	1	1,734.61
MOTORCONV007	10HP, 215TTFS6526 215T FRAME TEFC	685.00	1	685.00	677.50	2	1,355.00
MOTORCONV008	30 HP 286T FRAME 1775 RPM HZ 60 TYPE KS C1-A&B	1,235.86	1	1,235.86	1,235.86	1	1,235.86
MOTORDISC013	H45SW, HYDROSTAR HYDRAULIC MOTOR NOTES	2,242.77	3	6,728.31	2,242.77	2	4,485.54
MOTORDUST001	250HP, PROCESS DUST COLLECTION - SEE NOTES	7,560.00	1	7,560.00	7,560.00	1	7,560.00
MOTORFLAM021	1200 HP - LAST REBUILT 8/2011 - Notes	29,663.37	1	29,663.37	29,663.37	1	29,663.37
MOTORGNBS001	E205, 15HP 254T FRAME- M022's - VENT FANS - TIP FL	744.12	2	1,488.24	744.12	1	744.12
MOTORGRPC001	22101626, GRAPPLE ROTATE MOTOR CLAW-COMplete	844.24	0	0.00	844.25	2	1,688.50
MOTORGRPC023	104-1033-006, CAB BOOM ROTATE MOTOR (CHAR-LYNN)	566.85	2	1,133.70	566.85	2	1,133.70
MOTORMAGN001	10 HP, E204, 215TC WOUT/FT TEFC-XRI - SEE NOTES	756.36	0	0.00	833.54	1	833.54
MOTORSHRD001	800 HP, RECONDITIONED	20,761.29	0	0.00	25,111.35	1	25,111.35
PADDYARM001	138669, TRANSMISSION KEY PAD YT #807	518.58	1	518.58	806.20	1	806.20
PANNAPRC003	M020 & M022 PANS - INDUSTRIAL WELDORS	227.91	187	42,619.17	252.57	377	95,218.89
PICUPFLAM001	544M, VIBRATION PICKUP	855.00	2	1,710.00	855.00	2	1,710.00
PLATEYARM004	105023, TOP PLATE ASSY FOR CAPACITY (5TH WHEEL)	1,788.53	1	1,788.53	1,788.53	1	1,788.53

Spare Parts Inventory
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Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
PROTEFLAM001	MP3000, MOTOR PROTECTION PLC THAT MONITOR BREAKERS	1,920.00	2	3,840.00	1,920.00	2	3,840.00
PSUPPCCOM001	4F683, SCISSORS COMPACTORS 480V 3 PHASE	708.27	1	708.27	748.60	1	748.60
PULLYCONV002	1675CFMDJSDRUM, TURN PULLEY FOR C6A-B - 75" x 16"	949.00	1	949.00	1,159.80	2	2,319.60
PULLYCONV003	C1 TURN PULLEY - SEE NOTES	1,183.05	1	1,183.05	1,183.05	1	1,183.05
PULLYCONV004	TAIL PULLEY - C1'S, C2'S, C6'2 - SEE NOTES	2,970.00	1	2,970.00	2,970.00	1	2,970.00
PULLYCONV005	WINGED PULLEY - SEE NOTES	2,241.18	1	2,241.18	2,241.18	1	2,241.18
PULLYCONV006	1663CFQDDRUM, 63" X 16" DRUM PULLEY C4&C5	912.78	2	1,825.56	931.59	3	2,794.77
PULLYMAGN004	101970, CROWN CURVE 10" X 52 2-7/16 CLEANUP MAG	930.00	1	930.00	930.00	1	930.00
PULLYMAGN005	D18CF69WA40, CROWNED CURVED TAIL PULLEY	1,560.00	1	1,560.00	4,222.10	1	4,222.10
PULLYMAGN007	14" X 69" CF304SS DRUM W/J Hub X 2-15/16 HEAD	4,993.00	0	0.00	4,004.55	1	4,004.55
PUMPPAPRC001	R20-2993, PV SERIES 20 SUNDSTRAND - REBUILT	2,745.00	1	2,745.00	2,745.00	1	2,745.00
PUMPPCCOM001	45VQ42A1B20, HYDRAULIC PUMP FOR RDF & RES COMPA	391.04	1	391.04	831.62	1	831.62
PUMPPDISC001	REBUILT VICKERS VANE PUMP - DISC SCREEN - NOTES	1,480.00	1	1,480.00	1,480.00	1	1,480.00
PUMPPGRPC005	MAIN PUMP FOR PROCESS GRAPPLE - REBUILT	1,125.75	1	1,125.75	1,655.70	1	1,655.70
PUMPPGRPC006	JIB AND SWING PUMP PROCESS GRAPPLE - REBUILT	1,210.15	1	1,210.15	1,210.15	1	1,210.15
PUMPPMOB1007	PVB45FRSF20, FERROUS WALKING FLOOR HYD POWER PAK	2,178.71	1	2,178.71	2,178.71	1	2,178.71
PUMPPYARM004	P500 1026, PERMCO TANDEM HYD PUMP - NEW - NOTES	Not on List			1,471.00	1	1,471.00
PUMPPYARM007	3917002, FUEL INJECTOR PUMP - YT #805	1,935.86	1	1,935.86	1,935.86	0	0.00
RCTFRMAGN001	553-050, RECTIFIER FOR PROCESS MAG, DINGS #553-050	4,411.97	1	4,411.97	4,411.97	1	4,411.97
REDCRAPRC001	2080FC3AS 89.29:1, W/SPECIAL FLANGED MOUNT 20MF	5,262.76	1	5,262.76	5,262.76	1	5,262.76
REDCRAPRC002	2070FC3B184.800:1, GEAR REDUCER APRON CONV	10,093.52	1	10,093.52	10,093.52	1	10,093.52
REDCRCONV001	215D24, GEAR REDUCER/SHAFT MOUNT REDUCER	1,105.25	1	1,105.25	1,105.25	1	1,105.25
REDCRCONV002	307D24, GEAR REDUCER/SHAFT MOUNT REDUCER	1,581.52	2	3,163.04	1,581.52	2	3,163.04
REDCRCONV003	315D24, GEAR REDUCER/SHAFT MOUNT - REBUILT - NOTES	2,137.45	1	2,137.45	2,137.45	1	2,137.45
REDCRCONV004	415D24, GEAR REDUCER/SHAFT MOUNT REDUCER - REBUILT	6,169.00	1	6,169.00	6,169.00	1	6,169.00
REDCRCONV005	247169, CONVEYORS C-A&B, 2 THRU 6 - SEE NOTES	7,097.43	1	7,097.43	7,097.43	1	7,097.43

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Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
REDCRDUST005	HB882CN180TC, CYCLONE AIR LOCKS - NOTES	1,498.00	1	1,498.00	1,498.00	1	1,498.00
REDCRMAGN003	SK92772AZDBH-100LA/4RDDCUS, NEW MAG MOTOR/REDUCER	1,303.39	1	1,303.39	1,303.39	1	1,303.39
REDCRMAGN004	M85022, 210DM5A 17.1 A1 APG REDUCER - NEW	3,992.58	0	0.00	3,992.58	1	3,992.58
RIVETCONV003	SRC-2M, STAINLESS STEEL, 2000/BUCKET	566.77	1	566.77	566.77	0	0.00
ROLLRCONV001	SPIN ROLLERS - PROCESS LINE CONVEYORS	1,911.00	1	1,911.00	1,911.00	1	1,911.00
ROTORFLAM002	FLAIL MILL ROTOR - REBUILD - RH A MILL - SEE NOTES	61,278.00	1	61,278.00	61,278.00	1	61,278.00
ROTORFLAM003	FLAIL MILL ROTOR - REBUILD - B MILL - LH-SEE NOTES	52,984.00	1	52,984.00	52,984.00	1	52,984.00
ROTOROBWX001	OBW ROTOR - SPARE	59,086.16	1	59,086.16	59,086.16	0	0.00
ROTORSHRD001	SECONDARY SHREDDAR ROTOR- NEW - NOTES	86,175.32	1	86,175.32	43,766.00	1	43,766.00
SADDLAPRC001	135-00234-01, SADDLE FOR 5 - M020 & M022	23.78	200	4,756.00	21.20	536	11,363.20
SADDLCONV002	135-00284-01, SADDLE FOR 6 - M024	14.29	16	228.64	29.78	56	1,667.68
SCISRCCOM001	MTF SCISSOR ASSY (TRAILER LOCK ASSY) FOR ALL	1,535.00	2	3,070.00	1,535.00	0	0.00
SCRAPCONV002	PV-6011-58OR, 60" BELT SCRAPER	Not on List			627.78	2	1,255.56
SEALLFLAM003	LARGE, ALUM. DUST SEAL RINGS - SEE NOTES- INBOARD	1,000.00	2	2,000.00	1,000.00	2	2,000.00
SEALLFLAM004	SMALL, ALUM. DUST SEAL RINGS - SEE NOTES- OUTBOARD	1,173.32	2	2,346.64	1,173.32	2	2,346.64
SENSRFLAM006	ESO DTD2 SENSOR, TACH FOR JEFFREY FLAIL MILLS	736.70	2	1,473.40	736.70	0	0.00
SGRATFLAM012	900394, COVER GRATE FOR FLAIL MILL	7,054.03	2	14,108.06	6,778.01	2	13,556.02
SHAFTAPRC005	4231, SHAFT FOR 5-7/16 BEARING (SHOP #)	3,511.71	1	3,511.71	3,511.71	1	3,511.71
SHAFTDISC001	SECONDARY DISC SCREEN SPARE ROLLER #7	2,206.90	1	2,206.90	2,516.80	1	2,516.80
SHAFTFLAM001	SHAFT FOR JACK SHAFT ASSEMBLY ON FLAIL MILL	412.00	1	412.00	412.00	1	412.00
SHAFTMAGN001	101975, 2-7/16 X 61' SHAFT CLEANUP MAG	550.00	1	550.00	550.00	1	550.00
SHEVEFLAM023	426175, 12/8V24.8-N D180 - DRIVE SHEAVE	8,444.88	1	8,444.88	8,444.88	1	8,444.88
SHEVEFLAM024	426176, 12/8V24.8-10085D180, DRIVEN SHEAVE	5,259.78	2	10,519.56	5,259.78	2	10,519.56
SHIFTYARM001	CA124213, QUADCO SHIFT TOWER T-HANDLE	587.22	1	587.22	587.22	1	587.22
SLKITAPRC001	MS16, RUBBER SEALS- M022 REX BEARINGS (2 PER KIT)	453.22	1	453.22	758.03	2	1,516.06
SPIDRFLAM001	AH0119B, FLAIL MILL SPIDERS	1,900.00	24	45,600.00	1,900.00	24	45,600.00

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Item #	Description	Original Assets Value Per Item	Original Assets Quantity	Original Assets Total Value	Included Assets Value Per Item	Included Assets Quantity	Included Assets Total Value
SPRKTAPRC011	R2397-6T, TAILSHAFT SPROCKET - ASSY-NOTES - M020	2,152.71	1	2,152.71	2,152.71	1	2,152.71
SPRKTAPRC012	2397-M14-6T, 335-00576-01 SEGMENTED - SET	5,675.17	1	5,675.17	6,738.75	1	6,738.75
SPRKTDISC015	100TLB15 MTO, TIMED SINGLE SPROCKET - SEC. DISC	122.40	7	856.80	117.87	5	589.35
SPRKTDISC016	DS100Q15, TIMED - DBL/SNGL SECONDARY DISC	165.75	1	165.75	165.75	7	1,160.25
SPRKTDISC017	120DSB18, DOUBLE/SINGLE SPROCKET- HARDENED- PRI	237.98	21	4,997.58	237.98	8	1,903.84
SPRKTDISC018	H120R18, SINGLE SPROCKET DISC SCREENS- PRI	116.43	5	582.15	116.43	3	349.29
SPRKTDUST021	H80B54X2-7/16, CYCLONE ROT VALVE- STRAIGHT BORE	136.32	2	272.64	136.32	3	408.96
SPRKTDUST022	60B70TL, SPROCKET FOR BAGHOUSE ROTARY VALVE	60.66	4	242.64	79.57	2	159.14
SPRKTDUST023	120B11F1-1/2, SPROCKET FOR AIR LOCKS	78.88	4	315.52	78.88	2	157.76
STABIFLAM001	2147A41G11, INC. LINE STAB W/SHUTTER MECH, 4160	1,769.00	1	1,769.00	1,769.00	1	1,769.00
STABIFLAM002	2147A49G05, LOAD STABILIZER (ROLL OUT) 4160	1,769.00	1	1,769.00	1,769.00	1	1,769.00
STARTCCOM001	14IP32AA81, MOTOR STARTER	1,321.67	2	2,643.34	1,321.67	2	2,643.34
STRIPCONV001	101-60048-1, CEMA C RUBBER CLINCHER STRIP - IDLERS	446.67	3	1,340.01	446.67	0	0.00
TACHFSA001	TACH w/420 MILIAMP OUTPUT, 2 RELAY'S 115 V INPUT	Not on List			725.00	2	1,450.00
TIMERGRPC001	550-200-040, GREASE TIMER	429.95	0	0.00	542.75	1	542.75
TIREEFELD001	26.5X25 D2A TY CUSHION TIRE	9,606.00	4	38,424.00	9,213.33	8	73,706.64
TRANSFLAM001	2147A11G03, 600VA CONTROL POWER TRANSFORMER, 4160	1,895.00	1	1,895.00	1,895.00	1	1,895.00
VALVEAPRC004	63-506, REBUILT FLOW CONTROL MOOG VALVE	850.00	1	850.00	850.00	1	850.00
VBELTFLAM045	8VK2650/12, KEVLAR CORD DRIVE BELT FOR FLAIL MILL	3,172.93	2	6,345.86	3,317.78	2	6,635.56
WHEELAIRK001	L00992, WHEEL,BLOWER FAN #308PLR CLASS III	720.50	1	720.50	720.50	1	720.50
WHEELAIRK002	E00992, WHEELBLOWER FAN #308PLR CLASS III	729.98	1	729.98	729.98	0	0.00
WHEELAPRC001	WHEEL & AXLE ASSEMBLY FOR APRON CONVEYORS	147.00	75	11,025.00	145.04	349	50,618.96
WHEELCCOM002	COMPACTOR GUIDE WHEEL- SIDE ROLLER- SEE NOTES	755.00	8	6,040.00	755.00	2	1,510.00
WPLATCCOM001	1" X 6 X 15UHMW, COMPACTOR AXLE WEAR PLATES	52.00	26	1,352.00	52.00	0	0.00
			TOTAL	1,217,479.65		TOTAL	1,259,123.85