

NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF AIR QUALITY

5



February 11, 2002

GNF-2002  
1756

MICHAEL F. EASLEY  
GOVERNOR

Mr. Herb Strickler  
Environment, Health, and Safety Manager  
Global Nuclear Fuel – Americas, LLC  
P.O. Box 780  
Wilmington, NC 28402

WILLIAM G. ROSS JR.  
SECRETARY

Subject: Annual Reporting Requirement  
Global Nuclear Fuel –  
Americas, LLC  
Wilmington, North Carolina  
New Hanover County

ALAN W. KLIMEK, P.E.  
DIRECTOR

Dear Mr. Strickler:

The data reported in your annual report complies with the annual reporting requirement contained in **Specific Condition and Limitation No. 10 of Permit No. 1756R15**. The data contained in the report is for the calendar year 2001.

Calculations indicate Global Nuclear Fuel – Americas, LLC has complied with the incinerator charge rate allowed by Permit No. 1756R15.

If you have any questions regarding this matter, please contact me at (910) 395-3900 Ext. 288.

Sincerely,

Scott Sanders  
Environmental Technician V

cc: WiRO  
CF

REC'D AIR PERMIT  
FEB 15 02



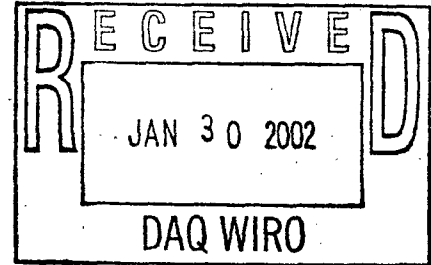
**Global Nuclear Fuel**

A Joint Venture of GE, Toshiba, & Hitachi

Herb Strickler  
Environment, Health & Safety  
Global Nuclear Fuel - Americas, LLC  
Castle Hayne Road, Wilmington, NC 28401  
(910) 675-5721, Fax (910) 675-5879  
herb.strickler@gnf.com

January 28, 2002

Mr. Wayne Cook  
Regional Air Quality Supervisor  
North Carolina Department of Environment and Natural Resources  
Division of Air Quality  
127 Cardinal Drive Extension  
Wilmington, NC 28405-3845



Subject: Incinerator Report per Air Permit 1756R15 Specific Condition (A), item 10 (b)

Dear Mr. Cook,

Attached is the incinerator charge rate data demonstrating compliance with Air Permit 1756R15. To ensure toxic air pollutant emission limits specified in the permit are not exceeded, the charge rate in the incinerator must not exceed 1,200 pounds per hour of Type O waste and waste oil. Under Specific Condition A, item 10 (b) "the previous year's log of waste charge rates into the incinerator, in units of pounds per hour" must be reported to the Regional Supervisor, Division of Air Quality within (30) thirty days after each calendar year. We believe this report meets the above stated requirement.

The enclosed spreadsheet is the incinerator waste charge report for the 2001 calendar year. There were a total of 538 combustible waste boxes burned equating to 285,913 pounds. The average charge rate for combustible waste boxes was 123 pounds per hour with a maximum of 342 pounds per hour, below the permit maximum of 1,200 pounds per hour. The total oil consumption was 4,495 pounds with an average of 40 pounds per hour and a maximum of 68 pounds per hour.

If you have any questions, feel free to contact me at (910) 675-5721 or Priti Mathur at (910) 675-5295.

Sincerely,

Herb Strickler, Manager  
Site Environment, Health, & Safety

TOTAL = 285,913  $\frac{lb}{yr}$  Type O  
= 4,495  $\frac{lb}{yr}$  Used oil

= 290,408 lb

Enclosure: 2001 Incinerator Waste Charge Report

cc: S. Sanders  
~~A. Amistad~~ w/o enclosure  
HRS-01-008

Type O = 98% - Basis

Used oil = 2%

2000 = 87% Type O - Hourly Basis.  
13% Used oil

REC'D AIR RECORDS MGMT  
FEB 15 02

Box Burn Data

Burn 00-01				Burn 00-02			
Date	Shift	Weight (lbs)	Burn Rate (lbs/hr)	Date	Shift	Weight (lbs)	Burn Rate (lbs/hr)
1/15/01	GYD	589	147.3	3/26/01	GYD	0	0.0
	DAY	970	121.3		DAY	0	0.0
	EVE	944	118.0		EVE	1214	151.8
1/16/01	GYD	970	121.3	3/27/01	GYD	956	119.5
	DAY	968	121.0		DAY	982	122.8
	EVE	611	152.8		EVE	1246	155.8
1/17/01	GYD	1100	137.5	3/28/01	GYD	1020	127.5
	DAY	1072	134.0		DAY	1118	139.8
	EVE	1154	144.3		EVE	886	110.8
1/18/01	GYD	1142	142.8	3/29/01	GYD	1050	131.3
	DAY	842	105.3		DAY	0	0.0
	EVE	551	68.9		EVE	519	129.8
1/19/01	GYD	1106	138.3	3/30/01	GYD	966	120.8
	DAY	0	0.0		DAY	0	0.0
	EVE	0	0.0		EVE	0	0.0
1/22/01	GYD	0	0.0	4/2/01	GYD	0	0.0
	DAY	990	123.8		DAY	437	109.3
	EVE	898	112.3		EVE	0	0.0
1/23/01	GYD	954	119.3	4/3/01	GYD	605	151.3
	DAY	946	118.3		DAY	1266	158.3
	EVE	1094	136.8		EVE	537	268.5
1/24/01	GYD	1042	130.3	4/4/01	GYD	0	0.0
	DAY	1052	131.5		DAY	1082	135.3
	EVE	928	116.0		EVE	974	121.8
1/25/01	GYD	884	110.5	4/5/01	GYD	1090	136.3
	DAY	527	87.8		DAY	1038	129.8
	EVE	976	122.0		EVE	689	86.1
1/26/01	GYD	900	112.5	4/6/01	GYD	965	120.6
	DAY	0	0.0		DAY	0	0.0
	EVE	0	0.0		EVE	0	0.0
2/19/01	GYD	0	0.0	4/9/01	GYD	0	0.0
	DAY	0	0.0		DAY	1020	127.5
	EVE	1166	145.8		EVE	0	0.0
2/20/01	GYD	992	124.0	4/11/01	GYD	607	151.8
	DAY	1032	129.0		DAY	0	0.0
	EVE	1012	126.5		EVE	0	0.0
2/21/01	GYD	1054	131.8	4/12/01	GYD	932	0.0
	DAY	1204	150.5		DAY	1022	127.8
	EVE	982	122.8		EVE	1082	135.3
2/22/01	GYD	609	76.1	4/13/01	GYD	1014	126.8
	DAY	1110	138.8		DAY	0	0.0
	EVE	1052	131.5		EVE	0	0.0
2/23/01	GYD	1112	139.0	4/17/01	GYD	0	0.0
	DAY	0	0.0		DAY	439	109.8
	EVE	0	0.0		EVE	954	119.3
	GYD	0	0.0		GYD	920	115.0

REC'D AIR RECORDS MGMT  
 FEB 15 02

**Box Burn Data**

Date	DAY	Weight (lbs)	Weight (lbs)	Date	DAY	Weight (lbs)	Weight (lbs)
	EVE	Weight (lbs)	Weight (lbs)		EVE	Weight (lbs)	Weight (lbs)
2/26/01	DAY	964	120.5	4/18/01	DAY	373	62.2
	EVE	1056	132.0		EVE	499	99.8
2/27/01	GYD	1136	142.0	-	-	-	-
	DAY	0	0.0	-	-	-	-
2/28/01	EVE	519	86.5	-	-	-	-
	GYD	1224	153.0	-	-	-	-
3/1/01	DAY	1008	126.0	-	-	-	-
	EVE	992	124.0	-	-	-	-
3/2/01	GYD	944	118.0	-	-	-	-
	DAY	1066	133.3	-	-	-	-
3/5/01	EVE	986	123.3	-	-	-	-
	GYD	1062	132.8	-	-	-	-
3/6/01	DAY	0	0.0	-	-	-	-
	EVE	0	0.0	-	-	-	-
3/7/01	GYD	0	0.0	-	-	-	-
	DAY	529	264.5	-	-	-	-
3/8/01	EVE	0	0.0	-	-	-	-
	GYD	0	0.0	-	-	-	-
3/9/01	DAY	427	71.2	-	-	-	-
	EVE	1130	141.3	-	-	-	-
3/12/01	GYD	1132	141.5	-	-	-	-
	DAY	1306	163.3	-	-	-	-
3/13/01	EVE	1124	140.5	-	-	-	-
	GYD	976	122.0	-	-	-	-
3/14/01	DAY	1072	134.0	-	-	-	-
	EVE	1040	130.0	-	-	-	-
3/15/01	GYD	1208	151.0	-	-	-	-
	DAY	0	0.0	-	-	-	-
3/16/01	EVE	0	0.0	-	-	-	-
	GYD	0	0.0	-	-	-	-
3/19/01	DAY	908	113.5	-	-	-	-
	EVE	1030	128.8	-	-	-	-
3/20/01	GYD	1220	152.5	-	-	-	-
	DAY	970	121.3	-	-	-	-
3/21/01	EVE	1076	134.5	-	-	-	-
	GYD	1068	133.5	-	-	-	-
3/22/01	DAY	1052	131.5	-	-	-	-
	EVE	1004	125.5	-	-	-	-
3/23/01	GYD	1048	131.0	-	-	-	-
	DAY	998	124.8	-	-	-	-
3/24/01	EVE	1012	126.5	-	-	-	-
	GYD	1040	130.0	-	-	-	-
3/25/01	DAY	0	0.0	-	-	-	-
	EVE	0	0.0	-	-	-	-
3/26/01	GYD	0	0.0	-	-	-	-
	DAY	1086	135.8	-	-	-	-
3/27/01	EVE	0	0.0	-	-	-	-

**Weight Statistics (lbs)**

Total	68948	-
Maximum	1306	265
Minimum	427	71.2
Mean	985	129
Median	1021	130

**Weight Statistics (lbs)**

Total	27502	-
Maximum	1266	269
Minimum	373	62.2
Mean	636	90
Median	788	121

FEB 15 02  
 RECD AIR RECORDS MGMT

Box Burn Data

Burn 00-03				Burn 00-04			
Date	Shift	Weight (lbs)	Burn Rate (lbs/hr)	Date	Shift	Weight (lbs)	Burn Rate (lbs/hr)
7/23/01	GYD	595	148.8	8/22/01	GYD	0	0.0
	DAY	998	124.8		DAY	895	111.9
	EVE	978	122.3		EVE	1065	133.1
7/24/01	GYD	1073	134.1	8/23/01	GYD	0	0.0
	DAY	919	114.9		DAY	0	0.0
	EVE	1128	141.0		EVE	537	119.3
7/25/01	GYD	1107	138.4	8/24/01	GYD	1115	139.4
	DAY	1113	139.1		DAY	0	0.0
	EVE	518	64.8		EVE	0	0.0
7/26/01	GYD	1364	170.5	8/27/01	GYD	0	0.0
	DAY	1067	133.4		DAY	0	0.0
	EVE	1090	136.3		EVE	877	109.6
7/27/01	GYD	1114	139.3	8/28/01	GYD	943	117.9
	DAY	0	0.0		DAY	525	131.3
	EVE	0	0.0		EVE	0	0.0
7/30/01	GYD	0	0.0	9/4/01	GYD	556	185.3
	DAY	1011	126.4		DAY	1109	138.6
	EVE	994	124.3		EVE	898	163.3
7/31/01	GYD	1293	161.6	9/5/01	GYD	850	106.3
	DAY	1045	130.6		DAY	1126	140.8
	EVE	1255	156.9		EVE	1173	146.6
8/1/01	GYD	1200	150.0	9/6/01	GYD	915	114.4
	DAY	1017	127.1		DAY	1001	125.1
	EVE	1019	127.4		EVE	1144	143.0
8/2/01	GYD	0	0.0	9/10/01	GYD	0	0.0
	DAY	1117	139.6		DAY	968	121.0
	EVE	1036	129.5		EVE	1086	135.8
8/3/01	GYD	1167	145.9	9/11/01	GYD	1232	154.0
	DAY	0	0.0		DAY	1032	129.0
	EVE	0	0.0		EVE	1229	153.6
8/8/01	GYD	0	0.0	9/12/01	GYD	1095	136.9
	DAY	0	0.0		DAY	1119	139.9
	EVE	693	115.5		EVE	1145	143.1
8/9/01	GYD	916	114.5	9/13/01	GYD	1198	149.8
	DAY	967	120.9		DAY	915	114.4
	EVE	1055	131.9		EVE	1214	151.8
8/13/01	GYD	0	0.0	9/14/01	GYD	994	124.3
	DAY	808	101.0		DAY	0	0.0
	EVE	1166	145.8		EVE	0	0.0
8/14/01	GYD	1049	131.1	9/18/01	GYD	1498	187.3
	DAY	799	99.9		DAY	1049	131.1
	EVE	979	122.4		EVE	1108	138.5
8/15/01	GYD	0	0.0	9/19/01	GYD	1039	129.9
	DAY	0	0.0		DAY	1056	132.0
	EVE	947	118.4		EVE	1148	143.5
	GYD	1011	126.4		GYD	0	0.0

REC'D AIR RECORDS UNIT



Box Burn Data

Burn 00-05				Burn 00-06			
Date	Shift	Weight (lbs)	Burn Rate (lbs/hr)	Date	Shift	Weight (lbs)	Burn Rate (lbs/hr)
9/26/01	GVD	0	0.0	10/24/01	GVD	1700	212.5
	DAY	0	0.0		DAY	1518	189.8
	EVE	873	218.3		EVE	945	157.5
9/27/01	GVD	1739	217.4	10/29/01	GVD	0	0.0
	DAY	1578	197.3		DAY	1623	202.9
	EVE	1331	166.4		EVE	1532	255.3
9/28/01	GVD	1469	183.6	11/6/01	GVD	1001	333.7
	DAY	0	0.0		DAY	623	207.7
	EVE	0	0.0		EVE	1021	127.6
10/1/01	GVD	0	0.0	11/7/01	GVD	533	177.7
	DAY	1389	173.6		DAY	0	0.0
	EVE	1492	186.5		EVE	1004	223.1
10/2/01	GVD	1473	184.1	11/8/01	GVD	1575	196.9
	DAY	1519	189.9		DAY	882	110.3
	EVE	532	133.0		EVE	0	0.0
10/3/01	GVD	0	0.0	11/12/01	GVD	0	0.0
	DAY	0	0.0		DAY	853	284.3
	EVE	1475	184.4		EVE	1393	174.1
10/4/01	GVD	1684	210.5	11/13/01	GVD	1410	176.3
	DAY	1584	198.0		DAY	1902	237.8
	EVE	1529	191.1		EVE	2002	250.3
10/5/01	GVD	1653	206.6	11/14/01	GVD	1758	219.8
	DAY	0	0.0		DAY	1976	247.0
	EVE	0	0.0		EVE	2010	251.3
10/8/01	GVD	0	0.0	11/15/01	GVD	1807	225.9
	DAY	1626	203.3		DAY	1443	180.4
	EVE	1550	193.8		EVE	525	131.3
10/9/01	GVD	1606	200.8	11/27/01	GVD	1565	195.6
	DAY	1409	176.1		DAY	1394	174.3
	EVE	1582	197.8		EVE	1583	197.9
10/10/01	GVD	1504	188.0	11/28/01	GVD	1410	176.3
	DAY	971	121.4		DAY	1632	204.0
	EVE	1499	187.4		EVE	1383	172.9
10/11/01	GVD	1498	187.3	11/29/01	GVD	1752	219.0
	DAY	966	120.8		DAY	1313	0.0
	EVE	1709	213.6		EVE	1538	192.3
10/12/01	GVD	1520	190.0	11/30/01	GVD	1649	206.1
	DAY	0	0.0		DAY	0	0.0
	EVE	0	0.0		EVE	0	0.0
-	-	-	-	12/3/01	GVD	0	0.0
-	-	-	-		DAY	1485	297.0
-	-	-	-		EVE	2268	283.5
-	-	-	-	12/4/01	GVD	1754	219.3
-	-	-	-		DAY	948	158.0
-	-	-	-		EVE	1291	161.4
-	-	-	-	GVD	1283	160.4	

REC'D AIR RECORDS MGMT  
FEB 15 02





**Box Burn Data**

**Shift Statistics**

Maximum Weight (lbs)	2738	GYD
Minimum Weight (lbs)	373	DAY
Mean Weight (lbs)	923	

Maximum Rate (lbs/hr)	342	GYD
Minimum Rate (lbs/hr)	62.2	DAY
Mean Rate (lbs/hr)	123	

**Summary Statistics**

Total Boxes Burned	538
Total Pounds Burned	285913

2001	QTR 1	QTR 2	QTR 3	QTR 4
Total Weight Burned (lbs)	78905	17545	76457	106999
Mean Weight (lbs)	986	835	1044	1486
Maximum Weight (lbs)	1306	1266	1739	2738
Maximum Weight (shift)	DAY	DAY	GYD	GYD
Minimum Weight (lbs)	427	373	518	532
Minimum Weight (shift)	DAY	DAY	EVE	EVE
Mean Rate (lbs/hr)	129	130	133	200.4
Maximum Rate (lbs/hr)	265	269	218.0	342
Maximum Rate (shift)	DAY	EVE	EVE	GYD
Minimum Rate (lbs/hr)	71.2	62.2	64.8	110
Minimum Rate (shift)	DAY	DAY	EVE	DAY

REC'D AIR RECORDS MGMT  
FEB 15 02

Oil Burn Data

Burn 00-01					
Date	Shift	Inches	Gallons	Weight (lbs)	Burn Rate (lbs/hr)
1/29/01	GYD	0.0	0.0	0.0	0.0
	DAY	0.0	0.0	0.0	0.0
	EVE	2.6	37.0	267.0	66.7
1/30/01	GYD	5.2	73.0	534.0	66.7
	DAY	0.0	0.0	0.0	0.0
	EVE	4.5	63.0	461.8	57.7
1/31/01	GYD	4.0	56.0	410.5	68.4
	DAY	0.0	0.0	0.0	0.0
	EVE	0.0	0.0	0.0	0.0
2/1/01	GYD	0.0	0.0	0.0	0.0
	DAY	0.0	0.0	0.0	0.0
	EVE	1.0	14.0	102.6	25.7
2/2/01	GYD	2.0	28.0	205.2	25.7
	DAY	0.0	0.0	0.0	0.0
	EVE	0.0	0.0	0.0	0.0
2/5/01	GYD	0.0	0.0	0.0	0.0
	DAY	4.0	56.0	410.5	58.6
	EVE	4.0	56.0	410.5	51.3
2/6/01	GYD	4.0	56.0	410.5	51.3
	DAY	2.0	28.0	205.2	25.7
	EVE	1.0	14.0	102.6	15.8
2/7/01	GYD	1.5	21.0	153.9	25.7
	DAY	1.5	21.0	153.9	38.5
	EVE	1.5	21.0	153.9	19.2
2/8/01	GYD	2.0	28.0	205.2	25.7
	DAY	2.0	28.0	205.2	25.7
	EVE	0.0	0.0	0.0	0.0
2/9/01	GYD	1.0	14.0	102.6	34.2
	DAY	0.0	0.0	0.0	0.0
	EVE	0.0	0.0	0.0	0.0

Weight Statistics (lbs)

Total		44	614	4495	682
Maximum		5	73	534	68
Minimum		1	14	103	16
Mean		3	36	264	40
Median		2	28	205	34

REC'D AIR RECORDS MGMT  
FEB 15 02

Oil Burn Data

Shift Statistics

Maximum Weight (lbs)	534	EVE
Minimum Weight (lbs)	102.6	GYD
Mean Weight (lbs)	264	

Maximum Rate (lbs/hr)	68	GYD
Minimum Rate (lbs/hr)	15.8	EVE
Mean Rate (lbs/hr)	40	

Summary Statistics

Total Gallons Burned	614.0
Total Pounds Burned	4495.3
Total Drums Burned	11

Boxes Ave = 123 lb/hr  
oil Ave = 40 lb/hr

$$\frac{123}{163} = 75\%$$

$$\frac{40}{163} = 25\%$$

REC'D AIR RECORDS MCHT  
FEB 15 02