

**EFFLUENT AND MONITORING REPORT**

**APRIL-JUNE 1982**

**WHITE MESA PROJECT  
SUA-1358, DOCKET NO. 40-8681**

**ENERGY FUELS NUCLEAR, INC**

**THREE PARK CENTRAL-SUITE 900**

**1515 ARAPAHOE**

**DENVER, COLORADO 80202**

8210250008 820827  
PDR ADOCK 04008681  
C PDR

20693

DATE: 08/23/82 TIME: 14:33  
 PROGRAM: RMP025

ENERGY FUELS NUCLEAR INC  
 WHITE MESA URANIUM MILL  
 QUARTERLY EFFLUENT AND MONITORING REPORT  
 SOURCE MATERIAL LICENSE NO. SUA-1358 DOCKET NO. 40-8681

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 REPORTING PERIOD 04/01/82 - 06/30/82

YELLOW CAKE DRYER STACK SAMPLES

SAMPLE DATE	LOCATION	FLOW RATE CUBIC M/SEC	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL BACKGROUND		COUNTING ERROR UCI/ML	RELEASE RATE CI/QTR	LLD UCI/ML	% MPC
				UCI/ML	UCI/ML				
06/14/82	DRYER STACK	.8953	U-NAT	3.102 X 10 <sup>-9</sup>			2.190 X 10 <sup>-2</sup>	1.000 X 10 <sup>-16</sup>	3101.6
			TH-230	6.690 X 10 <sup>-12</sup>		8.726 X 10 <sup>-13</sup>	4.723 X 10 <sup>-5</sup>	1.000 X 10 <sup>-16</sup>	334.5
			RA-226	2.356 X 10 <sup>-12</sup>		7.199 X 10 <sup>-13</sup>	1.663 X 10 <sup>-5</sup>	1.000 X 10 <sup>-16</sup>	7.9
			PB-210	1.745 X 10 <sup>-11</sup>		7.272 X 10 <sup>-12</sup>	1.232 X 10 <sup>-4</sup>	2.000 X 10 <sup>-15</sup>	17.5

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SAMPLE PLANT STACK SAMPLES

SAMPLE DATE	LOCATION	FLOW RATE CUBIC M/SEC	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL		COUNTING ERROR UCI/ML	RELEASE RATE CI/QTR	LLD UCI/ML	MPC
				BACKGROUND UCI/ML					
04/25/82	STACK ONE	.4597	U-NAT	3.897 X 10 <sup>-12</sup>			1.412 X 10 <sup>-5</sup>	1.000 X 10 <sup>-16</sup>	3.9
			TH-230	0.000			0.000	0.000	0.0
			RA-226	0.000			0.000	0.000	0.0
			PB-210	0.000			0.000	0.000	0.0

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AIR PARTICULATES (LO-VOLS)

GROSS CONCENTRATIONS  
 INCLUDING NATURAL  
 BACKGROUND  
 UCI/ML

COUNTING ERROR  
 UCI/ML

LLD  
 UCI/ML

% MPC

SAMPLING PERIOD	LOCATION	RADIONUCLIDE	UCI/ML	COUNTING ERROR UCI/ML	LLD UCI/ML	% MPC
04/01/82 06/30/82 (MET STATION)	BLV-1	U-NAT	4.69 X 10 <sup>-15</sup>	9.09 X 10 <sup>-17</sup>	1.35 X 10 <sup>-16</sup>	.1
		TH-230	3.46 X 10 <sup>-15</sup>	3.28 X 10 <sup>-16</sup>	9.50 X 10 <sup>-17</sup>	4.3
		RA-226	2.38 X 10 <sup>-15</sup>	4.77 X 10 <sup>-16</sup>	5.00 X 10 <sup>-16</sup>	.1
		PB-210	2.14 X 10 <sup>-14</sup>	3.70 X 10 <sup>-15</sup>	4.50 X 10 <sup>-15</sup>	.5
04/01/82 06/30/82 (NEAREST RESIDENCE)	BLV-2	U-NAT	8.84 X 10 <sup>-16</sup>	8.74 X 10 <sup>-18</sup>	7.00 X 10 <sup>-17</sup>	.0
		TH-230	7.73 X 10 <sup>-16</sup>	2.39 X 10 <sup>-16</sup>	8.00 X 10 <sup>-17</sup>	1.0
		RA-226	4.78 X 10 <sup>-16</sup>	1.69 X 10 <sup>-16</sup>	3.00 X 10 <sup>-16</sup>	.0
		PB-210	1.98 X 10 <sup>-14</sup>	1.79 X 10 <sup>-15</sup>	2.00 X 10 <sup>-15</sup>	.5
04/01/82 06/30/82 (BLACK MESA - BACKGROUND)	BLV-3	U-NAT	3.83 X 10 <sup>-16</sup>	2.83 X 10 <sup>-17</sup>	5.00 X 10 <sup>-17</sup>	.0
		TH-230	2.16 X 10 <sup>-16</sup>	2.24 X 10 <sup>-16</sup>	6.00 X 10 <sup>-17</sup>	.3
		RA-226	1.41 X 10 <sup>-15</sup>	1.03 X 10 <sup>-15</sup>	2.00 X 10 <sup>-16</sup>	.0
		PB-210	2.40 X 10 <sup>-14</sup>	2.10 X 10 <sup>-15</sup>	2.00 X 10 <sup>-15</sup>	.6
04/01/82 06/30/82 (SOUTH TAILINGS AREA)	BLV-4	U-NAT	6.03 X 10 <sup>-15</sup>	4.04 X 10 <sup>-16</sup>	6.00 X 10 <sup>-17</sup>	.1
		TH-230	1.42 X 10 <sup>-14</sup>	1.19 X 10 <sup>-15</sup>	6.00 X 10 <sup>-17</sup>	17.9
		RA-226	2.62 X 10 <sup>-15</sup>	3.09 X 10 <sup>-16</sup>	3.00 X 10 <sup>-16</sup>	.1
		PB-210	2.25 X 10 <sup>-14</sup>	2.30 X 10 <sup>-15</sup>	2.00 X 10 <sup>-15</sup>	.6
04/01/82 06/30/82 (S.E. TAILINGS AREA)	BLV-5	U-NAT	3.61 X 10 <sup>-15</sup>	3.80 X 10 <sup>-16</sup>	5.00 X 10 <sup>-17</sup>	.1
		TH-230	7.61 X 10 <sup>-15</sup>	9.40 X 10 <sup>-16</sup>	7.00 X 10 <sup>-17</sup>	9.5
		RA-226	1.39 X 10 <sup>-15</sup>	2.19 X 10 <sup>-16</sup>	2.00 X 10 <sup>-16</sup>	.0
		PB-210	1.80 X 10 <sup>-15</sup>	1.89 X 10 <sup>-15</sup>	2.00 X 10 <sup>-15</sup>	.0



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AIR PARTICULATES (LO-VOLS)

GROSS CONCENTRATIONS  
EXCLUDING NATURAL  
BACKGROUND  
UCI/ML

SAMPLING PERIOD	LOCATION	RADIONUCLIDE	UCI/ML
=====			
NET RELEASE FROM SITE			
04/01/82 06/30/82	BLV-1	U-NAT	4.30 X 10 <sup>-15</sup>
		TH-230	3.24 X 10 <sup>-15</sup>
		RA-226	9.79 X 10 <sup>-16</sup>
		PB-210	0.0
NET RELEASE FROM SITE			
04/01/82 06/30/82	BLV-2	U-NAT	5.01 X 10 <sup>-16</sup>
		TH-230	5.57 X 10 <sup>-16</sup>
		RA-226	0.0
		PB-210	0.0
NET RELEASE FROM SITE			
04/01/82 06/30/82	BLV-3	BACKGROUND VALUES	
NET RELEASE FROM SITE			
04/01/82 06/30/82	BLV-4	U-NAT	5.65 X 10 <sup>-15</sup>
		TH-230	1.40 X 10 <sup>-14</sup>
		RA-226	1.21 X 10 <sup>-15</sup>
		PB-210	0.0
NET RELEASE FROM SITE			
04/01/82 06/30/82	BLV-5	U-NAT	3.22 X 10 <sup>-15</sup>
		TH-230	7.40 X 10 <sup>-15</sup>
		RA-226	0.0
		PB-210	0.0

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GROUND WATER

GROSS CONCENTRATIONS  
 INCLUDING NATURAL  
 BACKGROUND  
 UCI/ML

COUNTING ERROR  
 UCI/ML

LLD  
 UCI/ML

SAMPLE DATE	LOCATION	RADIONUCLIDE	UCI/ML	COUNTING ERROR UCI/ML	LLD UCI/ML
=====					
04/13/82	MONITOR WELL 1	U-NAT	1.35 X 10 <sup>-9</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	2.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	3.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	0.00	1.10 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	0.00	6.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (MG/L)	1269.00		
04/02/82	MONITOR WELL 2	U-NAT	4.73 X 10 <sup>-9</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	5.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	6.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	0.00	1.20 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	2.00 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (MG/L)	2860.00		
04/13/82	MONITOR WELL 3	U-NAT	2.37 X 10 <sup>-8</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	2.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	5.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	1.03 X 10 <sup>-9</sup>	1.20 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	0.00	1.00 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (MG/L)	5193.00		

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GROUND WATER

GROSS CONCENTRATIONS  
INCLUDING NATURAL  
BACKGROUND

SAMPLE DATE	LOCATION	RADIONUCLIDE	BACKGROUND UCI/ML	COUNTING ERROR UCI/ML	LLD UCI/ML
04/07/82	MONITOR WELL 4	U-NAT	1.35 X 10 <sup>-9</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	3.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	1.00 X 10 <sup>-9</sup>	2.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	0.00	1.00 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	0.00	7.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (MG/L)	3260.00		
04/13/82	MONITOR WELL 5	U-NAT	2.70 X 10 <sup>-9</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	4.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	3.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	0.00	1.10 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	0.00	7.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (MG/L)	2575.00		
04/01/82	MONITOR WELL 6-1	DRY WELL			
04/01/82	MONITOR WELL 6-2	DRY WELL			
04/01/82	MONITOR WELL 7-1	DRY WELL			
04/01/82	MONITOR WELL 7-2	U-NAT	1.69 X 10 <sup>-8</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	9.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	0.00	1.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	1.80 X 10 <sup>-9</sup>	1.20 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	0.00	1.20 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (MG/L)	850.00		

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GROUND WATER

GROSS CONCENTRATIONS  
INCLUDING NATURAL  
BACKGROUND  
UCI/ML

COUNTING ERROR  
UCI/ML

LLD  
UCI/ML

SAMPLE DATE	LOCATION	RADIONUCLIDE			
04/13/82	MONITOR WELL 8-1	DRY WELL - WELL DESTROYED			
04/13/82	MONITOR WELL 8-2	DRY WELL - WELL DESTROYED			
04/01/82	MONITOR WELL 9-1	DRY WELL			
04/01/82	MONITOR WELL 9-2	DRY WELL			
04/01/82	MONITOR WELL 10-1	DRY WELL			
04/01/82	MONITOR WELL 10-2	DRY WELL			

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GROUND WATER

GROSS CONCENTRATIONS  
 INCLUDING NATURAL  
 BACKGROUND  
 UCI/ML

COUNTING ERROR  
 UCI/ML

LLD  
 UCI/ML

SAMPLE DATE	LOCATION	RADIONUCLIDE	UCI/ML	COUNTING ERROR UCI/ML	LLD UCI/ML
04/07/82	WATER WELL	U-NAT	6.77 X 10 <sup>-10</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	6.00 X 10 <sup>-10</sup>	1.40 X 10 <sup>-9</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	2.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	1.00 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	0.00	5.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>
		TOT DIS. (NG/L)	390.00		

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SURFACE WATER

GROSS CONCENTRATIONS  
 INCLUDING NATURAL  
 BACKGROUND  
 UCI/ML

COUNTING ERROR  
 UCI/ML

LLD  
 UCI/ML

SAMPLE DATE	LOCATION	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL BACKGROUND UCI/ML	COUNTING ERROR UCI/ML	LLD UCI/ML
04/01/82	COTTONWOOD CREEK	U-NAT	1.21 X 10 <sup>-8</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	3.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	4.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	3.40 X 10 <sup>-9</sup>	1.30 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	1.20 X 10 <sup>-9</sup>	8.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>
		TOT SUSP. (MG/L)	4.00		
04/01/82	WESTWATER CANYON	U-NAT	1.35 X 10 <sup>-9</sup>		2.00 X 10 <sup>-10</sup>
		TH-230	0.00	7.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		RA-226	0.00	1.00 X 10 <sup>-10</sup>	2.00 X 10 <sup>-10</sup>
		PB-210	0.00	1.30 X 10 <sup>-9</sup>	1.00 X 10 <sup>-9</sup>
		PO-210	1.10 X 10 <sup>-9</sup>	8.00 X 10 <sup>-10</sup>	1.00 X 10 <sup>-9</sup>
		TOT SUSP. (MG/L)	5.00		

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VEGETATION SAMPLES

SAMPLE DATE	LOCATION	TYPE OF SAMPLE	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL BACKGROUND		COUNTING ERROR	LLD
				UCI/KG (DRY)	UCI/KG		
04/15/82	NORTHEAST OF MILL	GRASS	RA-226	1.310 X 10 <sup>-4</sup>	1.300 X 10 <sup>-5</sup>	1.000 X 10 <sup>-6</sup>	
			PB-210	4.900 X 10 <sup>-4</sup>	7.000 X 10 <sup>-5</sup>	8.000 X 10 <sup>-5</sup>	
04/15/82	NORTHWEST OF MILL	GRASS	RA-226	1.040 X 10 <sup>-4</sup>	9.000 X 10 <sup>-6</sup>	7.000 X 10 <sup>-6</sup>	
			PB-210	6.400 X 10 <sup>-4</sup>	5.000 X 10 <sup>-5</sup>	4.000 X 10 <sup>-5</sup>	
04/15/82	SOUTHWEST OF MILL	GRASS	RA-226	1.370 X 10 <sup>-5</sup>	3.000 X 10 <sup>-6</sup>	3.000 X 10 <sup>-6</sup>	
			PB-210	3.800 X 10 <sup>-4</sup>	4.000 X 10 <sup>-5</sup>	4.000 X 10 <sup>-5</sup>	

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SOIL SAMPLES

SAMPLE DATE	LOCATION	TYPE OF SAMPLE	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL BACKGROUND		COUNTING ERROR UCI/GM	LLD UCI/GM
				UCI/GM	UCI/GM		
04/15/82 (MET STATION)	BLV-1	SURFACE SOIL	U-NAT	3.840 X 10 <sup>-7</sup>	1.500 X 10 <sup>-8</sup>	3.000 X 10 <sup>-8</sup>	
			RA-226	4.230 X 10 <sup>-7</sup>	1.070 X 10 <sup>-7</sup>	1.000 X 10 <sup>-7</sup>	
04/15/82 (NEAREST RESIDENCE)	BLV-2	SURFACE SOIL	U-NAT	1.800 X 10 <sup>-7</sup>	1.300 X 10 <sup>-8</sup>	3.000 X 10 <sup>-8</sup>	
			RA-226	4.120 X 10 <sup>-7</sup>	1.170 X 10 <sup>-7</sup>	2.000 X 10 <sup>-7</sup>	
04/15/82 (BLACK MESA - BACKGROUND)	BLV-3	SURFACE SOIL	U-NAT	2.070 X 10 <sup>-7</sup>	1.400 X 10 <sup>-8</sup>	3.000 X 10 <sup>-8</sup>	
			RA-226	2.650 X 10 <sup>-6</sup>	8.500 X 10 <sup>-7</sup>	1.000 X 10 <sup>-7</sup>	
04/15/82 (SOUTH TAILINGS AREA)	BLV-4	SURFACE SOIL	U-NAT	2.600 X 10 <sup>-7</sup>	1.400 X 10 <sup>-8</sup>	3.000 X 10 <sup>-8</sup>	
			RA-226	4.780 X 10 <sup>-7</sup>	1.140 X 10 <sup>-7</sup>	1.000 X 10 <sup>-7</sup>	
04/15/82 (S.E. TAILINGS AREA)	BLV-5	SURFACE SOIL	U-NAT	2.160 X 10 <sup>-7</sup>	1.300 X 10 <sup>-8</sup>	3.000 X 10 <sup>-8</sup>	
			RA-226	4.490 X 10 <sup>-7</sup>	1.000 X 10 <sup>-7</sup>	1.000 X 10 <sup>-7</sup>	



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DIRECT RADIATION

MONITORING DATES		LOCATION	EXPOSURE RATE
BEGINNING	ENDING		MR/QTR
04/05/82	06/30/82	BLV-1 (MET STATION)	24.050
04/05/82	06/30/82	BLV-2 (NEAREST RESIDENCE)	23.660
04/05/82	06/30/82	BLV-3 (BLACK MESA - BACKGROUND)	27.690
04/05/82	06/30/82	BLV-4 (SOUTH TAILINGS AREA)	DOSIMETER LOST ON SITE
04/05/82	06/30/82	BLV-5 (S.E. TAILINGS AREA)	26.520

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RADON GAS

GROSS CONCENTRATIONS  
 INCLUDING NATURAL  
 BACKGROUND  
 UCI/ML

MONITORING DATES BEGINNING	MONITORING DATES ENDING	LOCATION	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL BACKGROUND UCI/ML	ERROR UCI/ML	LLD UCI/ML	% MPC
04/01/82 (MET STATION)	05/03/82	BLV-1	RN-222	$1.10 \times 10^{-10}$	$5.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	3.7
04/01/82 (NEAREST RESIDENCE)	05/03/82	BLV-2	RN-222	$1.50 \times 10^{-10}$	$7.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	5.0
04/01/82 (BLACK MESA - BACKGROUND)	05/03/82	BLV-3	RN-222	$1.50 \times 10^{-10}$	$7.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	5.0
04/01/82 (SOUTH TAILINGS AREA)	05/03/82	BLV-4	RN-222	$1.80 \times 10^{-10}$	$9.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	6.0
04/01/82 (S.E. TAILINGS AREA)	05/03/82	BLV-5	RN-222	$1.40 \times 10^{-10}$	$7.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	4.7
05/03/82 (MET STATION)	05/31/82	BLV-1	RN-222	0.00	$5.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	0.0
05/03/82 (NEAREST RESIDENCE)	05/31/82	BLV-2	RN-222	0.00	$5.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	0.0
05/03/82 (BLACK MESA - BACKGROUND)	05/31/82	BLV-3	RN-222	0.00	$3.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	0.0
05/03/82 (SOUTH TAILINGS AREA)	05/31/82	BLV-4	RN-222	$1.40 \times 10^{-10}$	$7.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	4.7
05/03/82 (S.E. TAILINGS AREA)	05/31/82	BLV-5	RN-222	$1.40 \times 10^{-10}$	$5.00 \times 10^{-11}$	$1.00 \times 10^{-10}$	4.7

DATE: 08/23/82 TIME: 14:33  
 PROGRAM: RMP025

ENERGY FUELS NUCLEAR INC  
 WHITE MESA URANIUM MILL  
 QUARTERLY EFFLUENT AND MONITORING REPORT  
 SOURCE MATERIAL LICENSE NO. SUA-1358 DOCKET NO. 40-8681

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 REPORTING PERIOD 04/01/82 - 06/30/82

RADON GAS

GROSS CONCENTRATIONS  
 INCLUDING NATURAL  
 BACKGROUND  
 UCI/ML

MONITORING DATES		LOCATION	RADIONUCLIDE	GROSS CONCENTRATIONS INCLUDING NATURAL BACKGROUND UCI/ML	ERROR UCI/ML	LLD UCI/ML	% MPC
BEGINNING	ENDING						
05/31/82 (MET STATION)	06/30/82	BLV-1	RN-222	1.40 X 10 <sup>-10</sup>	7.00 X 10 <sup>-11</sup>	1.00 X 10 <sup>-10</sup>	4.7
05/31/82 (NEAREST RESIDENCE)	06/30/82	BLV-2	RN-222	1.30 X 10 <sup>-10</sup>	7.00 X 10 <sup>-11</sup>	1.00 X 10 <sup>-10</sup>	4.3
05/31/82 (BLACK MESA - BACKGROUND)	06/30/82	BLV-3	RN-222	0.00	5.00 X 10 <sup>-11</sup>	1.00 X 10 <sup>-10</sup>	0.0
05/31/82 (SOUTH TAILINGS AREA)	06/30/82	BLV-4	RN-222	1.80 X 10 <sup>-10</sup>	9.00 X 10 <sup>-11</sup>	1.00 X 10 <sup>-10</sup>	6.0
05/31/82 (S.E. TAILINGS AREA)	06/30/82	BLV-5	RN-222	1.10 X 10 <sup>-10</sup>	6.00 X 10 <sup>-11</sup>	1.00 X 10 <sup>-10</sup>	3.7

DATE: 08/23/82  
PROGRAM: RMP025

TIME: 14:33

ENERGY FUELS NUCLEAR INC  
WHITE MESA URANIUM MILL  
QUARTERLY EFFLUENT AND MONITORING REPORT  
SOURCE MATERIAL LICENSE NO. SUA-1358 DOCKET NO. 40-8681

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REPORTING PERIOD 04/01/82 - 06/30/82

RADIOLOGICAL 50 YEAR DOSE COMMITMENT  
TO THE NEAREST RESIDENT FROM THE  
INHALATION OF AIRBORNE PARTICULATES  
SECOND QUARTER

RADIONUCLIDE	NET CONCENTRATION (BACKGROUND SUBTRACTED) UCI/ML	DOSE MREM/YEAR		
		WHOLE BODY	BONE	LUNG
U-238	$2.50 \times 10^{-16}$	.0011	.0199	.0396
U-234	$2.50 \times 10^{-16}$	.0012	.0199	.0451
TH-230	$5.57 \times 10^{-16}$	.0925	3.3143	1.7936
RA-226	.00	.0000	.0000	.0000
PB-210	.00	.0000	.0000	.0000
TOTAL		.0948	3.3541	1.8783

ANALYTICAL LABORATORIES

Lo-Vol Filters -	Alpha Nuclear, Dallas, Texas
Stack Samples -	Alpha Nuclear, Dallas, Texas
Soils -	Alpha Nuclear, Dallas, Texas
Vegetation -	Alpha Nuclear, Dallas, Texas
Water -	Core Labs, Aurora, Colorado
Radon -	ALARA, Inc., Ft. Collins, Colorado
TLD's -	Eberline, Santa Fe, New Mexico

**Stearns-Roger**

DATA SUMMARIES

ANNUAL REPORT

METEOROLOGICAL AND AIR QUALITY OBSERVATIONS  
WHITE MESA URANIUM PROJECT  
Near Blanding, Utah

July 1981 through June 1982

Prepared for  
ENERGY FUELS NUCLEAR, INC.

Prepared by  
STEARNS-ROGER ENGINEERING CORPORATION  
Environmental Sciences Division

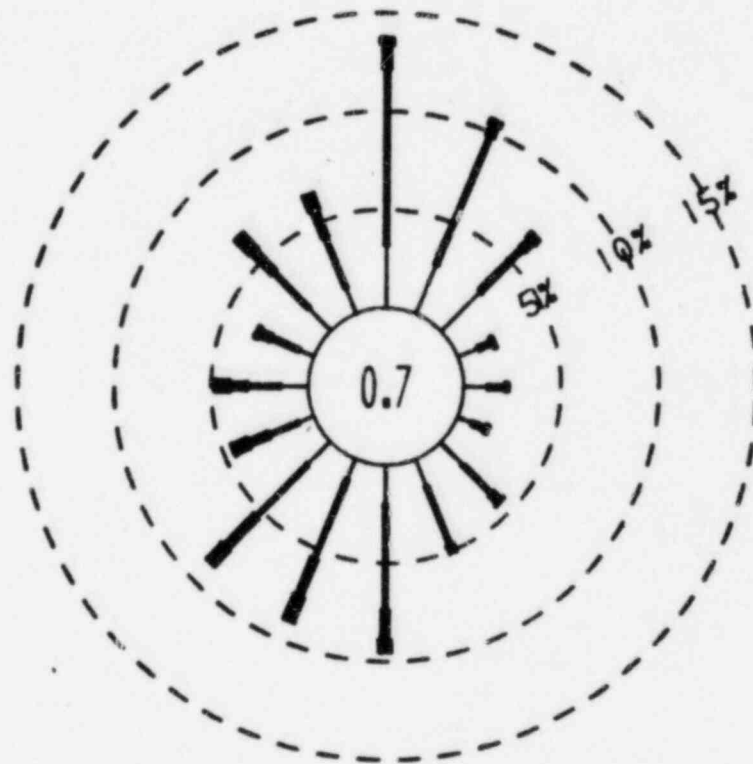
Project C-22691

July 1982

Stearns-Roger

# WINDROSE

07-01-81 TO 06-30-82



BLANDING, UTAH  
ENERGY FUELS NUCLEAR, INC.  
PROJECT C-22691

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

WINDROSE FREQUENCY TABULATION FOR JULY

HR	WIND DIRECTION																TOTAL	AVE
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM		
1	8	7	2	2	0	1	0	1	2	1	0	0	1	0	3	0	29	3.62
2	6	7	3	1	3	0	0	0	1	0	0	1	0	1	3	1	29	3.30
3	9	5	4	0	2	1	2	0	1	0	0	1	0	2	1	1	29	3.27
4	8	5	5	0	1	0	3	0	0	0	1	2	2	2	0	29	2.73	
5	7	8	3	1	2	0	2	0	1	0	0	1	1	0	2	0	29	2.36
6	6	7	2	0	1	0	1	0	2	0	1	0	0	1	3	5	29	2.31
7	7	5	8	1	1	0	0	0	0	3	0	0	1	2	1	0	29	2.03
8	2	3	5	2	3	0	3	1	0	2	1	0	5	0	2	0	29	1.86
9	0	2	3	2	3	4	6	3	1	2	1	0	1	0	0	0	28	2.25
10	1	0	0	0	3	1	9	7	2	2	3	1	0	0	1	0	30	2.64
11	0	0	1	1	0	1	5	8	5	3	4	0	0	0	1	0	29	2.94
12	1	0	0	0	1	2	3	9	8	1	2	0	2	0	1	0	30	3.01
13	0	0	0	1	0	3	4	10	5	2	1	1	0	1	1	0	29	3.22
14	3	0	0	0	0	0	3	7	9	4	1	1	0	1	1	0	30	3.39
15	1	0	0	0	1	1	2	7	6	7	2	0	2	0	1	0	30	3.71
16	1	0	1	0	0	3	2	4	6	3	3	1	2	3	1	0	30	3.79
17	3	2	2	0	0	1	2	3	5	5	0	2	1	1	3	0	30	4.30
18	1	3	0	2	0	0	1	0	5	1	4	4	3	1	2	3	30	3.98
19	2	1	0	3	1	1	0	2	3	0	4	2	7	2	2	0	30	4.20
20	1	1	2	1	1	2	0	1	4	1	4	1	5	1	4	1	30	3.75
21	1	0	2	1	1	1	1	0	3	2	3	8	0	5	2	0	30	3.78
22	6	1	2	1	0	1	2	2	0	0	3	2	3	4	2	0	30	3.66
23	6	3	2	1	0	0	1	1	0	0	3	1	4	0	4	3	30	3.40
24	11	4	3	0	0	0	2	0	1	0	1	2	1	1	2	1	30	3.84
TOTAL	91	50	24	19	24	16	52	47	67	48	56	24	47	19	43	38	708	3.22
COUNT	64	19	24	16	52	47	67	48	56	24	47	19	43	38	3			

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 1



WINDROSE FREQUENCY TABULATION FOR AUGUST

HR	WIND DIRECTION																TOTAL AVE OBS SPEED	
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM		
1	6	4	0	1	0	0	0	0	0	0	1	1	1	1	0	0	15	2.79
2	6	3	2	0	0	1	0	0	1	0	0	1	0	0	0	0	14	2.75
3	4	5	1	0	1	0	0	0	0	0	0	0	0	1	0	0	13	2.78
4	7	3	1	0	0	1	0	0	0	0	1	0	0	0	0	0	13	2.35
5	6	2	1	0	0	1	0	0	0	0	1	0	0	0	1	0	12	2.59
6	4	3	0	1	0	0	0	0	0	0	0	1	0	1	2	0	12	2.52
7	2	4	2	0	1	0	0	1	0	0	1	0	0	0	1	0	12	2.16
8	0	1	4	0	0	2	0	0	0	0	2	3	1	0	0	0	15	2.28
9	1	0	1	0	1	2	2	1	6	0	0	0	1	0	0	0	15	2.68
10	0	1	0	0	2	3	1	6	2	0	0	0	1	0	0	0	16	2.86
11	0	0	0	0	1	3	4	4	2	1	1	0	0	0	0	0	16	2.70
12	0	1	0	0	1	2	3	2	5	2	0	1	0	0	0	0	17	2.72
13	1	0	0	0	0	0	1	5	4	2	2	1	0	0	1	0	17	2.70
14	0	2	0	0	0	0	0	0	4	6	3	0	0	2	0	0	17	3.56
15	1	0	0	0	0	1	0	2	4	5	1	1	1	1	0	0	17	3.68
16	1	0	0	0	0	0	2	0	4	6	0	3	0	1	0	0	17	3.77
17	0	0	0	0	0	0	1	2	4	1	4	2	1	1	1	0	17	3.81
18	0	1	0	0	0	0	0	1	1	6	2	2	1	2	1	0	17	4.21
19	3	0	0	0	0	1	3	2	3	2	0	0	2	0	0	0	16	3.93
20	3	0	0	2	0	0	0	1	1	3	2	1	1	0	2	0	16	3.93
21	1	0	2	1	2	0	1	0	0	0	0	1	4	1	3	0	16	3.35
22	5	0	2	0	0	1	0	0	0	0	0	0	3	0	5	0	16	3.70
23	7	3	0	1	1	0	0	0	0	0	0	0	0	1	3	0	16	3.24
24	8	2	3	0	0	0	0	0	0	0	0	0	0	1	1	0	16	3.09
TOTAL	66	35	19	4	9	9	16	19	34	32	17	19	17	16	21	0	368	3.11

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 2

WINDROSE FREQUENCY TABULATION FOR SEPT.

HR	WIND DIRECTION																TOTAL	AVE	
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM			OBS
1	6	9	3	1	0	1	2	1	1	0	0	0	0	0	3	3	0	30	2.50
2	5	10	4	3	2	1	0	0	0	1	0	0	0	1	2	0	30	2.47	
3	9	12	3	0	1	1	0	0	1	0	0	0	0	2	1	0	30	2.55	
4	9	13	0	0	0	2	0	0	1	1	0	0	1	3	0	0	30	2.68	
5	12	10	3	0	0	1	1	0	0	1	0	0	1	1	0	0	30	2.46	
6	12	8	1	0	2	2	0	1	0	0	2	0	1	0	0	1	30	2.47	
7	6	7	0	1	0	2	1	3	2	1	0	0	0	3	3	0	29	2.28	
8	4	7	2	0	1	2	2	3	2	1	0	0	1	2	1	1	0	29	2.37
9	1	2	4	1	4	1	3	2	4	0	1	2	0	0	1	3	0	29	2.19
10	1	1	0	1	1	2	8	3	6	5	0	0	0	0	0	1	0	29	2.71
11	0	0	0	0	0	1	8	5	8	5	2	0	0	0	0	0	30	3.16	
12	0	0	0	0	0	4	8	8	4	5	0	0	1	0	0	0	30	3.47	
13	0	0	0	0	0	2	4	9	10	1	1	1	0	1	1	0	30	3.74	
14	1	0	0	0	0	1	4	8	8	3	0	1	1	2	0	0	29	4.09	
15	2	1	1	0	0	1	1	6	9	4	1	1	1	1	0	0	30	4.14	
16	2	0	1	1	1	0	2	0	4	10	3	3	2	1	0	0	30	4.25	
17	0	3	0	1	1	0	0	2	4	7	4	5	1	0	1	1	0	30	4.13
18	4	2	1	0	0	0	1	4	7	2	1	1	4	2	1	0	30	4.07	
19	2	2	0	2	0	0	1	0	3	3	6	1	2	0	1	6	1	30	3.55
20	4	5	1	3	0	0	0	1	4	1	3	1	2	2	0	3	0	30	3.14
21	7	6	1	0	1	0	2	0	1	2	0	0	6	2	2	0	0	30	2.77
22	11	4	1	1	0	0	1	0	2	0	2	0	1	0	3	4	0	30	3.04
23	11	7	2	0	1	0	1	0	1	0	2	0	0	1	2	2	0	30	2.89
24	14	8	1	0	2	0	0	0	0	0	2	0	1	0	1	1	0	30	2.92
TOTAL	123	118	29	15	17	15	42	39	78	74	44	16	21	17	29	37	1	715	3.09

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 3

WINDROSE FREQUENCY TABULATION FOR OCT.

HR	WIND DIRECTION																TOTAL	AVE	
	N	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	OBS			
1	8	5	3	0	0	0	3	1	0	0	0	0	2	1	4	0	27	3.00	
2	6	7	1	0	0	0	3	2	0	1	1	0	0	3	3	0	27	2.90	
3	5	8	1	0	1	0	2	3	0	0	0	1	2	3	1	0	27	2.95	
4	5	5	1	1	0	0	1	4	0	0	0	0	0	6	2	1	26	2.91	
5	5	5	3	2	0	1	1	2	1	1	0	1	1	4	2	0	25	2.59	
6	2	8	2	1	2	0	1	2	1	1	0	0	0	2	0	25	2.79		
7	4	4	4	0	1	0	1	2	3	0	1	0	0	3	1	0	25	2.49	
8	5	5	2	2	1	1	0	1	2	1	0	1	1	0	3	0	25	2.24	
9	1	1	3	2	2	1	2	3	2	2	1	0	2	2	0	0	26	2.75	
10	1	0	1	0	1	2	3	3	5	4	2	2	0	1	1	0	26	3.42	
11	1	0	1	0	0	5	1	9	4	1	2	1	0	1	0	0	26	3.78	
12	0	0	2	0	0	2	7	7	4	1	0	2	0	1	1	0	27	3.79	
13	0	0	1	0	0	6	2	6	6	2	0	1	1	1	0	0	26	3.77	
14	1	0	2	0	0	2	0	9	6	4	0	1	0	1	1	0	27	4.01	
15	2	0	1	0	0	1	2	6	5	6	2	0	0	2	0	0	27	4.07	
16	0	0	1	0	0	1	2	6	4	4	2	1	0	3	1	0	27	4.19	
17	1	1	1	0	1	1	3	1	6	3	2	2	1	2	0	0	27	4.22	
18	2	1	0	2	1	0	3	1	4	3	3	1	2	0	1	2	27	3.58	
19	2	2	1	0	1	2	2	1	2	4	2	0	2	2	3	1	0	27	3.11
20	3	4	2	1	2	1	2	1	0	0	0	3	2	1	3	2	0	27	3.00
21	8	2	1	0	1	0	2	1	1	0	1	1	1	0	4	0	27	3.21	
22	10	2	0	0	3	0	0	2	2	0	0	1	2	2	1	2	0	27	3.13
23	10	1	1	0	1	0	1	2	2	1	0	1	2	1	1	3	0	27	3.31
24	10	2	1	0	1	1	2	1	0	1	1	1	1	1	4	0	0	27	3.15
TOTAL	92	61	35	9	20	10	40	46	86	49	33	20	25	22	53	32	2	635	3.27

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*

\*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 4

WINDROSE FREQUENCY TABULATION FOR NOV.

HR	WIND DIRECTION																TOTAL	AVE	
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM			OB
1	13	7	1	0	0	1	2	0	0	0	0	0	0	2	2	2	0	30	2.52
2	11	5	2	0	2	0	0	3	0	0	0	0	1	2	2	2	0	30	2.61
3	9	5	3	0	0	1	1	0	0	1	0	2	1	4	2	0	30	2.49	
4	8	5	6	1	0	0	2	0	0	1	1	1	1	2	2	0	30	2.44	
5	12	4	2	3	0	0	2	0	0	2	0	0	0	2	3	0	30	2.16	
6	6	10	2	1	1	0	1	0	1	0	0	1	1	3	2	0	30	1.89	
7	4	8	5	0	0	1	0	0	1	1	0	0	0	5	2	2	30	1.85	
8	5	7	6	1	1	0	0	1	2	0	0	2	0	1	1	2	30	1.94	
9	3	2	5	2	1	0	2	1	3	3	1	0	0	3	1	1	29	1.96	
10	0	2	2	1	0	3	2	2	6	3	2	1	1	1	1	1	29	2.07	
11	1	0	1	0	0	0	4	11	6	2	1	0	0	1	0	1	28	2.51	
12	0	1	1	0	0	0	5	7	10	5	0	0	0	0	1	0	30	2.80	
13	0	2	0	0	0	0	2	7	6	6	3	0	2	0	0	2	30	3.02	
14	2	1	0	0	1	1	3	13	3	0	2	0	0	3	1	0	30	3.17	
15	0	1	1	0	0	1	2	4	10	4	1	1	2	0	2	1	30	3.20	
16	0	0	1	0	1	1	4	7	4	3	0	0	2	3	2	1	30	2.85	
17	1	0	2	0	1	1	1	2	6	3	6	1	0	1	3	2	30	2.65	
18	3	3	3	0	1	1	2	0	4	3	2	0	1	3	2	0	30	2.55	
19	6	7	2	0	1	0	0	1	0	1	0	1	0	2	5	2	30	2.47	
20	16	4	1	0	0	0	0	0	0	0	1	0	1	4	3	0	30	3.14	
21	16	3	3	0	0	0	0	0	0	0	1	2	4	1	0	30	3.23		
22	14	3	3	0	0	0	0	0	0	0	1	0	3	3	3	0	30	3.07	
23	13	4	1	1	0	1	0	0	0	1	0	0	3	2	4	0	30	2.92	
24	13	5	1	1	0	1	0	0	0	1	0	0	2	4	2	0	30	2.94	
TOTAL	156	89	54	11	9	12	31	47	74	41	24	12	32	58	46	8	716	2.60	

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 5

WINDROSE FREQUENCY TABULATION FOR DEC.

HR	WIND DIRECTION																TOTAL		AVE SPEED
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	OBS	AVE	
1	9	10	5	1	0	0	0	0	1	0	0	0	0	1	2	1	31	2.54	
2	12	7	4	0	0	0	0	1	0	0	0	0	1	2	3	1	31	2.55	
3	9	6	6	0	1	0	0	1	0	1	0	0	1	3	3	0	31	2.45	
4	8	6	6	1	0	1	0	0	0	0	0	0	3	3	3	0	31	2.38	
5	10	6	2	1	2	0	0	0	1	1	0	0	4	4	0	31	2.19		
6	10	6	4	1	0	0	0	1	1	0	2	1	1	2	0	31	2.28		
7	3	11	3	0	2	0	0	3	0	0	1	0	5	1	0	31	2.26		
8	6	11	3	0	0	2	0	0	2	0	0	1	5	0	0	30	2.22		
9	9	7	3	1	0	1	0	1	2	1	0	1	0	1	2	1	30	2.06	
10	4	1	6	2	3	1	2	1	1	0	0	1	3	1	2	30	1.92		
11	1	0	3	0	1	4	6	2	2	3	1	1	2	1	1	31	2.15		
12	0	0	1	0	1	0	7	2	7	2	5	1	1	0	1	31	2.42		
13	0	0	1	0	1	0	3	5	8	4	5	0	0	3	0	30	2.67		
14	0	0	1	0	0	0	1	7	6	9	2	0	0	5	0	31	2.77		
15	0	0	0	1	1	0	3	4	12	4	0	0	2	0	0	31	2.81		
16	1	1	1	0	0	1	0	3	7	9	1	0	1	1	2	3	0	31	2.70
17	1	1	1	0	2	0	2	2	5	3	4	1	2	2	3	1	31	2.35	
18	3	2	0	0	0	2	2	1	4	5	1	1	3	1	2	31	2.25		
19	4	1	2	0	4	0	1	0	2	0	0	1	4	3	5	4	0	31	2.09
20	11	4	3	0	1	0	0	0	0	0	0	1	1	4	6	0	31	2.60	
21	14	5	2	1	0	1	0	0	0	1	0	0	0	6	1	0	31	2.74	
22	18	4	2	0	0	0	0	0	0	0	1	0	0	3	1	1	31	2.58	
23	11	5	1	2	0	0	0	0	0	1	0	0	1	6	3	1	31	2.41	
24	6	7	3	2	0	0	1	0	2	0	0	1	1	3	5	0	31	2.21	
TOTAL	150	63	63	13	19	11	32	29	61	46	26	8	21	78	49	12	740	2.40	
COUNT																			

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 6

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

WINDROSE FREQUENCY TABULATION FOR JAN.

HR	WIND DIRECTION																TOTAL	AVE	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			CALM
1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	3	0	5	2.68
2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	5	1.98
3	0	0	0	0	1	0	0	0	2	1	0	0	0	0	1	0	0	6	1.72
4	1	0	0	0	0	1	1	0	1	0	1	0	0	0	1	0	0	6	1.72
5	1	0	0	0	0	0	0	2	0	1	1	0	0	0	0	1	0	6	2.11
6	0	0	0	0	1	0	0	1	1	0	0	0	0	0	2	1	0	6	2.17
7	1	0	0	0	0	1	0	0	0	1	0	0	2	0	1	0	0	6	1.53
8	2	0	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	6	2.11
9	1	1	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	6	2.62
10	3	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	6	3.64
11	1	0	0	0	1	0	0	1	2	0	1	0	0	0	0	1	0	7	3.32
12	1	0	0	0	0	2	1	1	0	1	0	0	0	0	1	0	0	7	3.13
13	1	0	0	0	0	0	2	1	0	2	0	0	0	0	1	0	0	7	2.49
14	1	0	0	0	0	0	0	2	2	0	0	1	1	0	0	0	0	7	2.75
15	0	0	0	0	0	1	2	0	0	2	0	0	1	0	0	1	0	7	3.32
16	0	2	0	0	0	1	1	2	0	0	0	0	0	0	1	0	0	8	3.30
17	2	0	0	0	0	1	1	0	1	1	0	1	0	0	1	0	0	8	3.30
18	0	1	0	0	1	0	0	2	1	0	0	0	0	0	0	2	1	8	3.24
19	0	0	2	0	1	0	0	1	1	0	0	0	0	0	0	2	0	7	3.63
20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	6	2.81
21	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	6	3.19
22	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	6	3.32
23	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	6	3.51
24	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3	0	6	3.32
TOTAL	22	8	12	1	6	4	12	13	15	5	13	4	4	5	14	17	154	2.80	
COUNT																			

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 7



WINDROSE FREQUENCY TABULATION FOR FEB.

HR	WIND DIRECTION													TOTAL	AVE					
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W			WNW	NW	NNW	CALM	OBS
1	3	5	3	2	0	1	1	0	0	0	0	0	1	1	0	2	3	0	22	2.58
2	4	8	1	1	0	2	1	0	0	0	0	0	0	0	1	2	1	0	22	2.53
3	3	5	4	3	0	0	0	0	0	0	0	0	1	2	1	3	0	22	2.60	
4	2	4	4	3	0	0	0	0	0	0	0	0	1	1	1	3	2	21	2.42	
5	3	5	4	0	1	0	0	0	0	0	0	0	1	1	1	3	2	21	2.28	
6	1	6	3	1	1	0	0	0	1	0	1	0	0	0	1	3	2	21	2.03	
7	1	6	2	0	0	1	0	2	1	0	0	0	1	1	1	3	3	22	2.20	
8	3	3	4	0	0	1	1	0	0	0	0	1	0	1	5	2	21	2.11		
9	2	1	3	1	0	2	0	2	0	1	1	1	2	0	2	2	1	21	1.83	
10	1	0	2	1	2	0	1	1	3	2	1	1	3	0	3	0	1	22	1.73	
11	0	1	0	0	1	0	3	3	1	2	3	3	0	5	0	0	0	22	1.85	
12	0	0	1	0	0	1	0	3	4	3	5	2	1	1	3	1	1	26	2.13	
13	0	0	0	1	2	1	1	3	4	4	4	3	1	0	3	0	0	27	2.28	
14	0	0	1	0	0	2	2	7	4	8	1	0	1	2	0	0	0	28	2.35	
15	1	0	0	1	0	2	1	5	6	4	2	2	0	1	0	0	0	26	2.39	
16	2	0	0	0	1	2	1	4	5	6	1	1	1	3	0	0	0	27	2.43	
17	0	0	1	0	1	0	3	1	3	3	10	1	1	1	1	1	0	27	2.28	
18	0	1	0	0	0	1	2	5	5	6	2	1	1	1	2	0	0	27	2.27	
19	2	3	0	1	0	0	1	3	3	1	5	1	3	0	1	2	1	27	1.89	
20	3	2	2	3	1	0	2	1	2	0	2	1	3	1	0	2	0	25	1.90	
21	6	4	1	1	1	1	2	1	0	0	2	0	0	0	1	3	2	25	1.95	
22	7	3	4	1	0	0	2	0	1	0	0	0	1	0	0	4	1	24	2.33	
23	1	6	3	2	0	0	1	1	0	0	1	1	1	1	3	3	1	24	2.25	
24	3	5	3	2	1	1	0	0	0	1	0	0	1	1	2	3	0	23	2.53	
TOTAL	48	69	46	23	12	10	24	29	46	36	58	22	29	14	41	47	19	573	2.22	
COUNT																				

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 8

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

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WINDROSE FREQUENCY TABULATION FOR MARCH

HR	WIND DIRECTION																TOTAL	AVE	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			CALM
1	5	4	4	0	0	0	0	1	3	3	0	1	2	1	0	0	0	24	3.07
2	4	5	2	1	0	1	0	1	2	3	1	1	0	1	1	1	0	24	3.10
3	4	3	2	3	0	0	1	5	2	1	0	1	1	0	0	0	23	2.77	
4	2	3	4	1	0	0	2	1	1	2	3	0	0	0	4	1	0	24	3.04
5	1	2	7	0	0	1	1	0	2	1	3	3	0	1	2	0	0	24	3.07
6	2	3	3	1	2	1	1	1	1	3	1	2	1	1	0	1	0	24	3.11
7	3	4	4	1	2	2	1	0	1	0	4	0	0	0	1	1	0	24	2.80
8	6	2	3	1	0	2	0	2	2	1	0	2	2	0	0	1	0	24	2.71
9	1	1	1	3	3	1	3	1	2	2	0	2	0	0	0	0	24	2.91	
10	1	0	0	0	1	2	2	7	4	3	4	1	1	0	2	0	28	3.24	
11	0	1	0	1	0	1	1	4	8	3	6	1	2	1	1	0	30	3.68	
12	0	0	0	0	1	0	0	3	6	5	5	6	1	1	0	0	29	4.15	
13	0	0	0	0	0	1	0	1	7	6	5	5	3	0	1	0	29	4.78	
14	0	0	0	0	0	0	0	1	5	8	3	4	3	3	2	0	29	5.13	
15	0	0	0	0	0	0	0	0	8	4	4	6	5	0	2	1	0	30	5.35
16	0	0	0	0	0	0	0	0	6	7	5	5	5	0	1	1	0	30	5.65
17	2	0	0	0	0	0	0	1	2	9	8	3	3	1	1	1	0	31	5.52
18	0	1	1	0	0	0	1	0	2	6	7	1	7	1	1	2	0	30	5.19
19	1	0	0	1	0	0	2	0	5	3	5	3	6	3	0	1	0	30	4.50
20	0	1	2	0	0	1	1	0	0	4	3	5	6	3	1	2	0	29	3.49
21	4	4	0	0	1	0	0	1	1	2	3	1	4	1	4	2	0	28	3.30
22	2	7	1	0	0	1	0	1	1	1	4	4	2	0	0	3	0	26	3.63
23	3	6	0	0	0	1	0	1	3	4	0	2	0	1	3	0	24	3.50	
24	3	4	2	1	1	1	0	1	1	3	3	0	0	2	1	1	0	24	3.39
TOTAL	44	36	14	11	14	17	26	75	83	83	59	55	24	28	22	0	642	3.79	
COUNT	51	14	14	11	14	17	26	75	83	83	59	55	24	28	22	0	642	3.79	

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 9



STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

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WINDROSE FREQUENCY TABULATION FOR APRIL

HR	WIND DIRECTION																TOTAL	AVE		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW			NW	CALM
1	5	5	2	1	0	0	0	1	0	0	2	0	0	0	0	1	2	0	19	3.39
2	3	5	2	0	0	1	0	0	2	1	1	0	0	0	2	2	0	19	3.26	
3	1	5	4	0	0	2	0	0	1	1	0	1	0	0	0	2	0	17	3.11	
4	5	2	4	0	0	1	0	0	1	1	0	1	0	0	0	2	0	17	2.93	
5	2	2	3	2	1	0	0	0	0	3	1	0	0	0	2	1	0	17	2.85	
6	2	3	4	2	0	0	0	0	1	1	0	3	0	0	1	0	17	2.75		
7	4	1	6	1	0	0	0	0	0	0	1	2	1	1	0	0	17	2.90		
8	2	2	2	1	2	0	2	0	1	0	3	0	1	1	1	2	0	20	3.09	
9	0	0	1	1	1	1	1	5	1	3	0	1	1	0	2	3	0	21	3.42	
10	0	0	0	0	1	0	3	1	4	3	4	4	0	1	0	2	0	23	3.67	
11	0	0	1	0	2	2	0	0	3	4	4	2	3	1	2	0	0	25	4.11	
12	1	0	0	0	1	1	1	1	3	2	8	2	2	1	2	0	0	25	4.36	
13	1	0	0	0	2	0	1	2	3	7	2	4	1	2	0	0	0	25	4.43	
14	1	2	0	0	1	1	0	0	2	4	6	4	5	0	0	0	0	26	4.68	
15	0	0	1	0	1	0	0	2	5	4	2	8	1	2	1	0	0	27	5.18	
16	1	0	3	1	0	0	1	0	1	5	4	5	2	2	1	0	0	26	5.47	
17	0	0	1	0	1	0	0	1	0	3	5	2	5	3	4	1	0	26	5.26	
18	0	0	1	0	1	0	0	1	0	2	3	2	7	4	2	4	0	27	5.02	
19	1	1	1	0	0	1	0	1	0	3	0	4	2	3	4	6	0	27	4.30	
20	3	3	1	0	0	0	1	0	0	1	4	3	2	2	2	4	0	26	4.06	
21	7	1	0	0	0	2	0	0	1	1	2	3	0	4	4	0	0	25	3.82	
22	10	1	1	0	1	0	1	0	0	0	1	1	1	0	3	3	0	23	3.1	
23	10	1	1	1	0	1	0	1	0	0	1	2	0	1	0	1	0	23	4.06	
24	8	3	3	1	0	1	1	0	0	0	1	0	1	0	0	2	0	21	3.73	
TOTAL	67	42	12	12	10	19	12	18	41	67	38	58	21	39	46	0	539	3.90		

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 10

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

WINDROSE FREQUENCY TABULATION FOR MAY

HR	WIND DIRECTION																TOTAL AVE			
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	OBS	SPEED		
1	4	5	2	2	1	0	0	1	3	2	2	2	0	0	0	3	0	27	3.40	
2	6	4	3	1	1	1	0	2	3	1	1	1	1	0	1	1	0	27	3.65	
3	3	6	2	1	1	0	2	3	0	1	0	0	1	1	4	0	27	3.26		
4	2	6	4	1	1	0	0	2	1	1	0	1	0	1	4	0	25	3.10		
5	1	10	3	1	0	0	0	2	1	0	1	1	1	0	2	2	0	25	3.13	
6	7	5	1	1	0	0	0	1	0	0	1	1	2	1	2	2	0	24	2.94	
7	2	7	3	0	0	2	0	1	0	0	0	1	0	0	3	5	0	24	3.01	
8	6	6	2	1	0	1	2	0	0	0	1	0	0	0	4	2	0	25	2.87	
9	2	2	3	1	1	0	2	0	3	2	1	2	1	0	3	2	0	25	2.86	
10	0	0	1	0	2	2	2	5	3	5	2	2	0	0	1	1	0	26	3.46	
11	0	0	1	0	0	0	2	2	8	7	3	2	1	1	1	2	0	30	4.14	
12	0	1	0	0	0	2	2	10	5	5	2	1	0	1	1	0	30	4.18		
13	0	1	0	0	0	0	1	10	8	5	2	0	0	1	2	0	30	4.73		
14	1	1	0	0	0	0	0	8	7	5	3	0	0	3	2	0	30	4.99		
15	1	0	0	0	0	1	0	0	5	7	8	2	2	1	2	1	0	30	5.58	
16	2	0	0	0	0	0	1	13	5	4	0	1	1	2	1	0	30	5.36		
17	0	0	0	0	0	0	0	3	7	8	5	2	1	0	3	0	29	5.62		
18	2	0	0	0	0	0	0	0	6	5	6	3	3	1	3	0	29	5.71		
19	2	1	1	0	0	0	0	1	3	7	4	2	1	3	4	0	29	5.49		
20	4	1	0	1	0	0	1	0	4	3	6	4	1	1	3	0	29	5.18		
21	3	2	0	0	1	1	0	0	1	4	5	4	1	2	0	5	0	29	4.27	
22	3	1	3	2	0	0	0	2	0	4	5	2	1	2	1	3	0	29	3.53	
23	3	4	5	0	0	0	0	2	2	3	1	3	2	2	2	0	29	3.52		
24	2	6	4	0	0	0	0	1	1	1	3	1	1	1	5	2	0	29	3.69	
TOTAL	56	69	38	12	8	9	14	21	67	81	81	54	27	18	41	60	0	666	4.07	
COUNT																				

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 11

WINDROSE FREQUENCY TABULATION FOR JUNE

HR	WIND DIRECTION																TOTAL	AVE		
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM			OBS	SPEED
1	5	6	3	1	0	0	1	0	1	1	1	0	0	1	2	2	0	24	3.67	
2	8	4	3	1	0	0	0	2	1	1	0	1	0	0	2	0	0	23	3.62	
3	6	4	3	1	0	0	0	2	0	1	0	0	0	2	2	0	0	23	3.53	
4	3	3	4	2	0	0	0	1	1	0	0	0	0	1	3	5	0	23	3.14	
5	7	2	8	0	0	0	0	1	1	0	0	0	0	2	2	0	0	23	2.88	
6	4	5	8	0	0	0	1	1	1	0	1	0	0	0	2	0	0	22	2.73	
7	3	6	7	1	1	0	0	0	1	0	0	0	0	1	2	0	0	22	2.80	
8	5	6	6	0	2	0	0	0	0	0	0	0	0	0	3	0	0	22	2.19	
9	0	1	1	1	5	5	2	0	1	0	1	1	1	1	2	0	0	22	1.91	
10	0	0	1	2	0	0	2	7	4	3	0	0	0	2	1	0	0	22	2.71	
11	0	0	0	1	0	0	2	5	7	3	4	2	0	0	0	1	0	25	3.23	
12	0	0	0	0	0	0	1	1	9	10	7	1	0	0	0	0	0	29	3.77	
13	0	0	0	0	0	0	0	3	5	7	11	1	1	0	0	1	0	29	4.42	
14	1	0	0	0	0	0	0	0	4	10	10	1	2	0	1	0	0	29	4.66	
15	0	0	0	0	0	0	0	2	9	13	2	2	0	0	0	1	0	29	5.04	
16	1	0	0	0	0	0	0	2	7	9	6	0	1	0	3	0	0	29	5.49	
17	1	0	0	0	0	0	0	1	11	6	2	3	2	2	1	0	0	29	5.56	
18	0	1	0	0	0	0	0	2	7	7	5	1	2	2	2	0	0	29	5.52	
19	1	0	2	0	0	0	0	1	2	10	4	4	2	1	2	0	0	29	5.29	
20	1	0	2	1	0	0	0	2	3	7	8	2	0	0	3	0	0	29	5.13	
21	3	1	2	0	0	0	0	1	3	5	6	2	2	2	1	0	0	29	4.47	
22	1	5	2	0	1	0	0	1	3	2	3	2	4	2	2	1	0	29	4.16	
23	8	1	2	0	0	0	1	0	2	1	2	3	0	2	3	0	0	25	4.32	
24	2	5	3	0	1	0	0	0	0	2	2	0	2	1	5	0	0	23	3.93	
TOTAL	60	57	57	11	10	5	8	25	50	83	98	46	25	20	28	42	0	618	3.91	
COUNT	50																			

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 12

WINDROSE FREQUENCY TABULATION - SUMMARY OF ALL DATA

HR	WIND DIRECTION																TOTAL		AVE OBS SPEED
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL	AVE	
1	72	67	29	11	1	5	7	6	8	9	9	4	3	10	14	27	1	283	3.02
2	72	65	27	8	9	3	9	10	8	11	5	5	3	7	20	17	2	281	2.97
3	62	64	33	8	3	9	8	14	4	7	1	7	10	20	19	1	278	2.87	
4	60	55	39	10	2	3	11	4	8	5	8	4	4	8	24	27	3	275	2.73
5	67	54	38	8	7	3	7	3	9	5	11	9	4	4	21	21	2	273	2.59
6	56	64	30	9	10	3	4	7	9	7	10	5	0	7	14	24	2	271	2.53
7	40	63	44	5	7	7	8	8	8	6	6	7	7	6	24	20	5	271	2.43
8	46	53	40	8	10	6	15	9	11	7	7	5	13	8	17	18	3	276	2.35
9	21	20	29	15	21	19	23	19	26	15	10	9	11	8	14	13	3	276	2.43
10	12	5	13	7	17	16	35	43	41	30	19	13	6	7	13	6	4	287	2.79
11	4	3	8	4	2	11	38	46	65	37	30	14	12	5	12	7	1	299	3.15
12	3	3	5	0	4	5	29	47	75	46	46	14	11	4	11	6	2	311	3.36
13	3	3	2	1	4	4	19	33	72	65	47	17	15	2	14	8	0	309	3.62
14	11	6	4	0	1	2	7	22	75	74	48	17	14	5	22	5	0	313	3.87
15	8	3	4	1	3	4	11	15	67	63	58	21	26	6	18	6	0	314	4.11
16	11	3	8	2	2	5	12	16	43	70	50	28	19	11	21	13	1	315	4.16
17	11	7	8	1	7	2	11	14	35	59	60	26	24	14	19	18	1	315	4.15
18	15	16	6	4	4	3	10	8	32	46	46	25	31	21	19	25	4	315	4.02
19	26	18	11	7	8	4	7	10	24	22	42	23	32	18	27	30	4	313	3.72
20	49	25	19	10	7	4	7	5	13	15	29	31	28	14	20	32	0	308	3.57
21	72	29	15	5	8	4	10	4	5	15	20	17	27	13	33	27	2	306	3.37
22	88	33	22	5	5	2	6	7	11	7	15	14	14	16	20	33	2	301	3.34
23	86	42	18	8	4	1	7	5	6	9	17	6	16	9	25	33	3	295	3.27
24	80	51	29	7	6	6	5	4	6	5	14	5	8	12	26	24	1	289	3.23
TOTAL	975	481	157	144	157	125	307	353	671	632	615	345	225	457	47	7074	3.24		
COUNT	752																		

\*\*\* A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM \*\*\*  
 \*\*\* AVERAGE WIND SPEED IS IN METERS PER SECOND (M/SEC) \*\*\*

Table 13

WIND ROSE TABLE

DIRECTION	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	TOTAL %
	2.2 M/S	4.5 M/S	6.7 M/S	> 6.7 M/S	
N	3.2	9.1	1.2	0.3	13.8
NNE	2.7	7.1	0.6	0.2	10.6
NE	2.8	3.1	0.6	0.3	6.8
ENE	1.1	0.7	0.1	0.1	2.0
E	1.2	0.9	0.2	0.0	2.2
ESE	0.8	0.7	0.2	0.0	1.8
SE	1.6	2.1	0.5	0.1	4.3
SSE	1.5	3.2	0.4	0.0	5.0
S	2.0	5.4	1.5	0.6	9.5
SSW	1.1	4.4	2.1	1.3	8.9
SW	1.6	3.8	2.2	1.1	8.7
WSW	0.8	1.7	1.1	0.9	4.5
W	1.4	1.7	0.9	0.8	4.9
WNW	0.8	1.6	0.6	0.2	3.2
NW	1.6	2.6	1.5	1.0	6.6
NNW	1.4	2.8	1.5	0.8	6.5
TOTAL %	25.6	51.1	15.0	7.6	99.3

THE WIND WAS CALM 0.7 PERCENT OF THE TIME  
 A WIND SPEED LESS THAN 0.9 M/SEC IS CONSIDERED CALM

WIND SPEED FREQUENCY TABLE - ALL DATA

RANGE	FREQUENCY	ACCUM. %	RANGE	FREQUENCY	ACCUM. %
0.0 - 0.89	47.0	0.6	11.63-12.52	7.0	99.9
0.90 - 1.79	1016.0	14.0	12.53-13.41	2.0	99.9
1.80 - 2.68	2083.0	41.3	13.42-14.30	1.0	99.9
2.69 - 3.58	1754.0	64.4	14.31-15.20	2.0	99.9
3.59 - 4.47	1026.0	77.9	15.21-16.09	2.0	100.0
4.48 - 5.36	614.0	86.0	16.10-16.99	1.0	100.0
5.37 - 6.26	398.0	91.2	17.00-17.88	2.0	100.0
6.27 - 7.15	243.0	94.4	17.89-18.77	0.0	100.0
7.16 - 8.05	168.0	96.6	18.78-19.67	0.0	100.0
8.06 - 8.94	124.0	98.2	19.68-20.56	0.0	100.0
8.95 - 9.83	73.0	99.2	20.57-21.46	0.0	100.0
9.84-10.73	32.0	99.6	21.47-22.35	0.0	100.0
10.74-11.62	13.0	99.8	22.36-ABOVE	0.0	100.0

TOTAL OCCURRENCES = 7609.0

Table 14

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

ANNUAL RELATIVE FREQUENCY DISTRIBUTION

SPEED(M/SEC)

DIRECTION	0.0 - 1.8	1.9 - 3.3	3.4 - 5.4	5.5 - 8.5	8.6 - 10.8	GREATER THAN 10.8	TOTAL
N	0.00478	0.001555	0.001131	0.000424	0.0	0.0	0.007588
NNE	0.000990	0.000990	0.000990	0.000141	0.0	0.0	0.004291
NE	0.001555	0.000990	0.000990	0.0	0.0	0.0	0.005874
ENE	0.002595	0.000565	0.0	0.0	0.0	0.0	0.003160
E	0.003329	0.001555	0.0	0.000141	0.0	0.0	0.005026
ESE	0.003322	0.001131	0.000141	0.000141	0.0	0.0	0.004736
SE	0.007119	0.004948	0.000424	0.0	0.0	0.0	0.012491
SSE	0.006898	0.009047	0.001272	0.0	0.0	0.0	0.017218
S	0.010312	0.015833	0.003817	0.0	0.0	0.0	0.029962
SSW	0.004212	0.011733	0.006503	0.000565	0.000141	0.0	0.023155
SW	0.008383	0.012016	0.007775	0.000990	0.000141	0.0	0.029305
WSW	0.004661	0.003958	0.002120	0.000424	0.0	0.0	0.011164
W	0.005680	0.004806	0.002403	0.000707	0.0	0.0	0.013597
WNW	0.002185	0.001838	0.001414	0.000283	0.0	0.0	0.005719
NW	0.003783	0.002969	0.001979	0.000141	0.0	0.0	0.008872
NNW	0.002321	0.001414	0.001131	0.000141	0.0	0.0	0.005007
TOTAL	0.074781	0.075912	0.032089	0.004100	0.000283	0.0	

RELATIVE FREQUENCY OF OCCURRENCES OF STABILITY CLASS 1 = 0.187164  
 RELATIVE FREQUENCY OF CALMS IN STABILITY CLASS 1 = 0.002403

Table 15



STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO. C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

ANNUAL RELATIVE FREQUENCY DISTRIBUTION

SPEED(M/SEC)

DIRECTION	0.0 - 1.8	1.9 - 3.3	3.4 - 5.4	5.5 - 8.5	8.6 - 10.8	GREATER THAN 10.8	TOTAL
N	0.001284	0.000565	0.000848	0.000283	0.0	0.0	0.002980
NNE	0.000430	0.000565	0.000848	0.0	0.0	0.0	0.001844
NE	0.001710	0.000565	0.000424	0.0	0.0	0.0	0.002700
ENE	0.001428	0.000990	0.000141	0.000141	0.0	0.0	0.002701
E	0.001996	0.000848	0.000283	0.000141	0.0	0.0	0.003269
ESE	0.001574	0.001555	0.000848	0.0	0.0	0.0	0.003977
SE	0.002583	0.003817	0.000990	0.0	0.0	0.0	0.007390
SSE	0.003734	0.005937	0.001414	0.000424	0.0	0.0	0.011509
S	0.003329	0.009471	0.004806	0.001555	0.000283	0.0	0.019445
SSW	0.002609	0.008058	0.011309	0.002403	0.000141	0.0	0.024521
SW	0.002157	0.003817	0.008058	0.003817	0.0	0.0	0.017848
WSW	0.001008	0.001979	0.003393	0.003110	0.0	0.0	0.009489
W	0.000576	0.001131	0.001696	0.001131	0.0	0.0	0.004534
WNW	0.001431	0.001414	0.000565	0.000565	0.0	0.0	0.003975
NW	0.000431	0.000707	0.001696	0.000707	0.0	0.0	0.003541
NNW	0.001002	0.000990	0.002120	0.000848	0.000283	0.0	0.005243
TOTAL	0.027283	0.042409	0.039440	0.015126	0.000707	0.0	

RELATIVE FREQUENCY OF OCCURRENCES OF STABILITY CLASS 2 = 0.124965  
 RELATIVE FREQUENCY OF CALMS IN STABILITY CLASS 2 = 0.000424

Table 16

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SIVE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

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ANNUAL RELATIVE FREQUENCY DISTRIBUTION

SPEED(M/SEC)

DIRECTION	0.0 - 1.8	1.9 - 3.3	3.4 - 5.4	5.5 - 8.5	8.6 - 10.8	GREATER THAN 10.8	TOTAL
N	0.000990	0.001555	0.000565	0.000848	0.0	0.0	0.003958
NNE	0.000424	0.001414	0.000141	0.0	0.0	0.0	0.001979
NE	0.001555	0.000565	0.000141	0.0	0.0	0.0	0.002262
ENE	0.0	0.000283	0.000141	0.0	0.0	0.0	0.000424
E	0.000424	0.000990	0.000141	0.0	0.0	0.0	0.001555
ESE	0.000283	0.000848	0.000707	0.000141	0.0	0.0	0.001979
SE	0.000565	0.002262	0.000848	0.000141	0.0	0.0	0.003817
SSE	0.000848	0.003251	0.002262	0.0	0.0	0.0	0.006361
S	0.001131	0.006644	0.004524	0.001131	0.000141	0.000141	0.013712
SSW	0.001272	0.003958	0.005230	0.001979	0.000424	0.0	0.012864
SW	0.000565	0.001555	0.002262	0.002545	0.000283	0.0	0.007209
WSW	0.000283	0.000424	0.001272	0.001272	0.000283	0.0	0.003534
W	0.000565	0.001131	0.001272	0.002545	0.000141	0.000141	0.005796
WNW	0.000141	0.000707	0.000565	0.000565	0.0	0.0	0.001979
NW	0.0	0.001838	0.000990	0.001838	0.0	0.0	0.004665
NNW	0.000141	0.000848	0.000565	0.000848	0.000283	0.0	0.002686
TOTAL	0.009189	0.028273	0.021628	0.013854	0.001555	0.000283	0.000283

RELATIVE FREQUENCY OF OCCURRENCES OF STABILITY CLASS 3 = 0.074781  
 RELATIVE FREQUENCY OF CALMS IN STABILITY CLASS 3 = 0.0

Table 17



ANNUAL RELATIVE FREQUENCY DISTRIBUTION

SPEED(M/SEC)

DIRECTION	0.0 - 1.8	1.9 - 3.3	3.4 - 5.4	5.5 - 8.5	8.6 - 10.8	GREATER THAN 10.8	TOTAL
N	0.004665	0.015111	0.011592	0.001555	0.000565	0.000141	0.033644
NNE	0.007775	0.017246	0.006079	0.001414	0.0	0.0	0.032513
NE	0.004948	0.010319	0.006361	0.000283	0.000141	0.0	0.022053
ENE	0.001272	0.001696	0.000848	0.000848	0.0	0.0	0.004665
E	0.001131	0.001838	0.002120	0.000141	0.0	0.0	0.005230
ESE	0.000283	0.000707	0.000848	0.000283	0.0	0.0	0.002120
SE	0.000565	0.002262	0.002686	0.001979	0.000141	0.0	0.007634
SSE	0.001131	0.003534	0.001979	0.000424	0.0	0.0	0.007068
S	0.001131	0.004948	0.005513	0.002120	0.000565	0.000283	0.014560
SSW	0.000848	0.004382	0.004806	0.003958	0.000848	0.000424	0.015267
SW	0.001272	0.003534	0.006220	0.002545	0.001131	0.000848	0.015550
WSW	0.000424	0.002686	0.004100	0.003675	0.000707	0.000283	0.011874
W	0.000848	0.002262	0.003251	0.003110	0.001272	0.0	0.010744
WNW	0.000283	0.002403	0.005372	0.000565	0.0	0.0	0.008623
NW	0.000848	0.003817	0.006785	0.003817	0.000565	0.0	0.015833
NNW	0.000707	0.005513	0.009330	0.003393	0.000707	0.0	0.019649
TOTAL	0.028131	0.082273	0.077891	0.030110	0.006644	0.001979	

RELATIVE FREQUENCY OF OCCURRENCES OF STABILITY CLASS 4 = 0.227029  
 RELATIVE FREQUENCY OF CALMS IN STABILITY CLASS 4 = 0.0

Table 18

ANNUAL RELATIVE FREQUENCY DISTRIBUTION

SPEED(M/SEC)

DIRECTION	0.0 - 1.8	1.9 - 3.3	3.4 - 5.4	5.5 - 8.5	8.6 - 10.8	GREATER THAN 10.8	TOTAL
N	0.007257	0.038309	0.021487	0.001272	0.0	0.0	0.068326
NNE	0.007107	0.029545	0.013571	0.001696	0.000424	0.0	0.052343
NE	0.005811	0.009047	0.002969	0.002545	0.000848	0.0	0.021220
ENE	0.000567	0.001131	0.000424	0.000283	0.0	0.0	0.002405
E	0.000142	0.000424	0.000283	0.0	0.0	0.0	0.000849
ESE	0.000142	0.000424	0.000848	0.000141	0.0	0.0	0.001556
SE	0.001135	0.002686	0.002969	0.000283	0.000141	0.0	0.007213
SSE	0.000428	0.003534	0.000565	0.000283	0.0	0.0	0.004810
S	0.001276	0.002545	0.006079	0.001979	0.000141	0.0	0.012020
SSW	0.000143	0.001272	0.002969	0.004100	0.000848	0.000707	0.010038
SW	0.000710	0.002686	0.003534	0.003817	0.000990	0.000283	0.012019
WSW	0.000284	0.000990	0.002969	0.001555	0.000424	0.000141	0.006363
W	0.001559	0.002120	0.002403	0.000990	0.000565	0.000141	0.007779
WNW	0.000709	0.001838	0.002686	0.000990	0.0	0.0	0.006223
NW	0.001418	0.003110	0.006503	0.006079	0.001272	0.0	0.018382
NNW	0.001420	0.005089	0.007068	0.004665	0.000848	0.0	0.019091
TOTAL	0.030110	0.104749	0.077325	0.030676	0.006503	0.001272	

RELATIVE FREQUENCY OF OCCURRENCES IN STABILITY CLASS 5 = 0.250636  
 RELATIVE FREQUENCY OF CALMS IN STABILITY CLASS 5 = 0.000141

Table 19

STEARNS-ROGER ENGINEERING CORP. - ENVIRONMENTAL SCIENCES DIVISION  
 CUSTOMER: ENERGY FUELS NUCLEAR PROJECT NO: C22691 SITE: BLANDING  
 COMMENTS: 10 METER METEOROLOGICAL DATA FROM 07/01/81 TO 06/30/82

ANNUAL RELATIVE FREQUENCY DISTRIBUTION

SPEED(M/SEC)

DIRECTION	0.0 - 1.8	1.9 - 3.3	3.4 - 5.4	5.5 - 8.5	8.6 - 10.8	GREATER THAN 10.8	TOTAL
N	0.014147	0.006927	0.000990	0.0	0.0	0.0	0.022063
NNE	0.009425	0.004382	0.0	0.0	0.0	0.0	0.013807
NE	0.010996	0.003393	0.0	0.0	0.0	0.0	0.014388
ENE	0.005712	0.001555	0.0	0.0	0.0	0.0	0.007267
E	0.004985	0.001555	0.0	0.0	0.0	0.0	0.006540
ESE	0.002923	0.000565	0.0	0.0	0.0	0.0	0.003488
SE	0.003960	0.001272	0.0	0.0	0.0	0.0	0.005232
SSE	0.002070	0.001272	0.0	0.0	0.0	0.0	0.003343
S	0.003976	0.001838	0.0	0.0	0.0	0.0	0.005813
SSW	0.002652	0.001272	0.0	0.0	0.0	0.0	0.003924
SW	0.003685	0.001838	0.0	0.0	0.0	0.0	0.005523
WSW	0.001921	0.001131	0.0	0.0	0.0	0.0	0.003052
W	0.005272	0.001414	0.0	0.0	0.0	0.0	0.006685
WNW	0.003261	0.002262	0.0	0.0	0.0	0.0	0.005523
NW	0.009751	0.005655	0.0	0.0	0.0	0.0	0.015406
NNW	0.008423	0.004948	0.0	0.0	0.0	0.0	0.013371
TOTAL	0.093158	0.041278	0.000990	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCES OF STABILITY CLASS 6 = 0.135425  
 RELATIVE FREQUENCY OF CALMS IN STABILITY CLASS 6 = 0.003675

Table 20

AVERAGE AMBIENT AIR TEMPERATURE TABLE

HOUR													HOUR
	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	AVE.
1	-4.6	-3.9	2.6	6.7	13.1	20.2	20.5	19.3	15.1	8.3	2.6	-1.6	7.1
2	-5.0	-4.2	2.1	6.1	12.5	19.3	19.9	18.5	14.4	8.0	2.6	-1.7	6.6
3	-5.4	-4.3	1.7	5.6	11.9	18.3	19.5	18.0	13.9	7.6	2.3	-1.9	6.2
4	-5.7	-4.7	1.5	5.0	11.0	17.8	19.0	17.6	13.3	7.3	1.9	-2.1	5.8
5	-5.8	-4.7	1.3	4.5	10.6	16.9	18.3	17.0	13.0	6.9	1.5	-2.2	5.4
6	-6.0	-5.0	1.2	4.0	9.9	15.4	17.8	16.5	12.7	6.1	1.2	-2.2	5.0
7	-6.2	-5.1	1.0	3.5	9.1	14.6	18.4	16.9	13.2	6.2	0.9	-2.3	4.9
8	-6.2	-5.1	1.3	4.1	8.7	14.4	20.2	18.4	15.2	6.5	1.8	-2.4	5.5
9	-5.6	-4.7	2.8	6.9	10.1	18.3	22.8	21.0	18.2	8.1	4.8	-1.8	7.3
10	-4.0	-3.5	4.8	9.7	13.0	23.5	25.1	23.6	20.6	10.7	7.6	0.5	9.7
11	-1.7	-1.7	6.0	11.5	15.7	25.3	26.7	25.2	22.2	12.4	9.0	2.8	11.6
12	0.4	0.3	7.3	12.7	17.2	26.3	28.3	26.5	23.1	13.7	10.2	4.0	13.0
13	1.8	1.9	8.4	13.9	18.5	26.8	29.2	27.7	24.4	14.6	11.3	4.9	14.2
14	2.5	2.6	9.2	14.7	19.3	28.2	30.1	28.6	25.1	15.2	11.9	5.5	14.9
15	2.9	2.9	9.8	15.4	20.1	29.2	30.7	29.3	25.4	15.5	12.0	5.9	15.4
16	3.0	3.2	10.2	16.1	20.5	30.0	31.1	29.6	25.5	15.7	11.8	6.3	15.7
17	2.8	3.1	10.3	16.3	21.0	30.0	31.1	29.7	25.3	15.6	11.1	6.0	15.7
18	2.0	2.7	10.0	16.1	21.2	30.3	30.8	29.3	24.6	15.1	9.3	4.7	15.1
19	-0.0	1.5	9.1	15.7	20.9	30.0	30.1	27.9	23.1	13.7	6.8	2.8	13.8
20	-1.9	-0.0	7.6	14.7	20.4	29.1	29.0	26.3	21.0	11.9	5.0	1.0	12.3
21	-3.0	-1.1	6.1	12.9	19.5	28.0	27.1	24.4	19.4	10.5	4.1	0.2	11.0
22	-3.6	-2.0	5.0	10.9	17.8	25.6	24.9	22.5	17.8	9.4	3.5	-0.4	9.6
23	-4.0	-2.9	4.2	9.1	16.0	22.8	23.2	21.0	16.7	8.8	3.2	-0.8	8.6
24	-4.4	-3.4	3.3	7.9	14.2	21.5	21.9	19.7	15.8	8.3	2.7	-1.1	7.7
MONTH AVE.	-2.4	-1.6	5.3	10.2	15.5	23.9	24.9	23.1	19.1	10.7	5.8	1.1	10.1

TOTAL OBSERVATIONS = 7766.0  
 ALL TEMPERATURES IN DEGREES CELSIUS

Table 21

FORM 5200B UNCLASSIFIED

AVERAGE RELATIVE HUMIDITY TABLE

HOUR	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	HOUR AVE.
1	66.8	75.5	63.2	43.6	39.5	37.7	46.8	49.1	51.6	54.9	54.9	63.0	55.2
2	67.4	75.9	64.5	45.6	42.1	40.0	48.9	50.9	54.4	55.6	55.9	64.3	56.7
3	67.7	76.4	65.7	46.7	43.6	42.0	50.7	52.7	56.6	56.1	56.2	64.4	57.7
4	67.8	76.6	67.0	48.2	45.2	43.3	51.8	54.5	58.8	57.1	57.1	65.1	58.8
5	68.4	76.9	67.1	49.4	47.0	45.0	53.6	56.0	60.7	59.1	58.4	66.4	60.0
6	69.4	77.2	67.9	50.4	48.8	47.0	55.7	58.2	62.4	61.2	59.4	67.6	61.4
7	69.4	77.3	68.6	51.4	51.2	48.7	56.7	59.4	63.4	62.9	60.7	68.6	62.5
8	70.5	77.6	69.4	52.6	53.5	49.7	55.2	60.0	63.0	63.7	61.3	69.6	63.1
9	70.6	77.5	67.2	50.3	53.8	49.7	51.4	56.4	57.8	62.7	59.1	70.3	61.5
10	66.8	75.2	60.7	43.6	49.1	43.7	44.9	50.2	50.7	57.1	51.7	67.5	56.1
11	59.8	68.3	55.1	37.8	42.3	39.0	40.8	45.9	45.1	47.4	46.1	58.1	49.6
12	54.1	62.1	50.2	35.1	38.8	36.5	37.8	42.7	41.2	43.4	43.0	50.6	45.3
13	48.0	56.1	45.4	32.5	34.7	34.3	35.5	39.4	38.0	40.8	39.8	46.4	41.4
14	46.0	53.1	41.9	30.8	31.9	32.0	32.9	37.1	35.4	38.7	38.3	44.2	39.1
15	45.8	53.1	40.2	29.5	29.7	29.3	30.6	34.7	34.0	37.7	37.7	42.9	37.7
16	45.6	52.3	38.1	27.8	28.0	27.3	29.0	32.3	33.0	36.5	37.3	41.4	36.4
17	45.5	51.5	36.5	26.6	27.1	26.0	27.7	32.0	31.7	35.6	38.0	41.4	35.7
18	46.8	52.4	36.8	26.9	25.7	25.3	27.0	31.4	31.2	35.3	39.5	43.3	35.9
19	50.4	56.3	38.2	27.1	25.5	25.0	27.8	32.0	32.0	37.0	42.9	48.1	37.8
20	55.9	62.6	42.1	28.1	25.6	25.0	30.0	33.7	34.6	39.8	46.7	53.6	41.0
21	60.9	67.1	46.4	29.3	26.8	26.0	32.0	36.9	38.3	43.8	49.6	58.7	44.3
22	64.9	71.0	50.5	32.3	29.1	27.0	34.7	40.2	41.7	48.1	52.0	60.9	47.6
23	65.7	73.3	54.5	36.0	32.7	30.7	38.8	43.2	45.4	51.8	53.1	62.1	50.4
24	66.1	74.5	58.7	40.1	36.0	34.7	43.0	46.4	48.1	53.7	53.9	63.3	52.9
MONTH AVE.	60.0	67.5	54.0	38.4	37.9	35.5	40.9	44.7	46.1	49.2	49.7	57.4	49.5

TOTAL OBSERVATIONS = 7766.0

Table 22



AVERAGE WET BULB TEMPERATURE TABLE

HOUR	AVERAGE WET BULB TEMPERATURE TABLE												HOUR
	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	AVE.
1	-6.2	-5.1	0.1	1.9	6.1	10.9	12.9	12.3	9.3	4.2	-0.5	-3.5	2.8
2	-6.6	-5.3	-0.2	1.6	6.0	10.9	12.8	11.9	9.1	4.1	-0.5	-3.6	2.6
3	-6.9	-5.4	-0.4	1.2	5.8	10.9	12.7	11.7	9.0	3.8	-0.7	-3.7	2.4
4	-7.1	-5.8	-0.6	0.9	5.3	10.4	12.3	11.6	8.8	3.7	-1.0	-4.0	2.1
5	-7.3	-5.8	-0.8	0.7	5.3	9.8	12.1	11.4	8.8	3.5	-1.2	-4.0	2.0
6	-7.4	-6.0	-0.8	0.3	4.8	9.1	12.0	11.2	8.7	3.3	-1.4	-4.0	1.8
7	-7.7	-6.1	-0.9	0.0	4.4	8.5	12.6	11.7	9.3	3.1	-1.6	-4.0	1.8
8	-7.6	-6.2	-0.5	0.6	4.4	8.7	13.9	12.9	10.8	3.5	-0.7	-4.1	2.3
9	-7.0	-5.8	0.5	2.6	5.5	12.0	15.2	14.6	12.6	4.8	1.6	-3.5	3.6
10	-5.7	-4.8	1.7	4.1	7.4	15.0	16.3	15.9	13.5	6.4	3.1	-1.3	5.0
11	-4.0	-3.4	2.3	4.8	8.5	15.7	16.8	16.3	13.9	6.7	3.7	0.0	5.9
12	-2.4	-2.1	2.9	5.3	9.1	16.0	17.2	16.9	14.1	7.2	4.3	0.5	6.6
13	-1.6	-1.1	3.2	5.8	9.5	15.6	17.6	17.1	14.5	7.5	4.8	0.7	7.0
14	-1.3	-0.7	3.5	6.1	9.6	16.0	17.5	17.3	14.5	7.5	4.9	1.0	7.2
15	-0.9	-0.4	3.7	6.5	9.9	16.1	17.6	17.5	14.2	7.7	5.1	1.3	7.4
16	-0.9	-0.3	3.9	6.8	9.7	16.7	17.5	17.2	14.1	7.6	4.8	1.5	7.4
17	-1.1	-0.5	3.7	6.7	9.9	16.4	17.2	17.2	13.8	7.4	4.4	1.2	7.3
18	-1.6	-0.9	3.5	6.6	9.9	16.4	16.9	16.8	13.4	7.0	3.3	0.4	6.9
19	-3.0	-1.8	3.0	6.3	9.7	16.1	16.4	15.8	12.4	6.3	1.7	-0.8	6.0
20	-4.3	-2.7	2.3	5.8	9.2	15.2	16.1	14.9	11.3	5.4	0.7	-1.8	5.2
21	-5.1	-3.2	1.6	4.8	8.9	14.8	15.1	14.2	10.8	4.8	0.4	-2.2	4.6
22	-5.4	-3.7	1.1	3.7	8.0	13.1	14.1	13.4	10.0	4.4	0.0	-2.5	3.9
23	-5.7	-4.4	0.8	2.9	7.4	11.9	13.7	12.7	9.8	4.4	-0.1	-2.8	3.5
24	-6.1	-4.8	0.4	2.4	6.5	11.7	13.2	12.2	9.4	4.1	-0.4	-3.1	3.0
MONTH AVE.	-4.7	-3.6	1.4	3.7	7.5	13.5	15.0	14.4	11.5	5.3	1.4	-1.7	4.5

TOTAL OBSERVATIONS = 7766.0  
 ALL TEMPERATURES IN DEGREES CELSIUS

Table 23

FORM 87000 10/7/82

TABLE 24  
PRECIPITATION (INCHES)

<u>Month</u>	<u>Site 1981/82</u>	<u>30-Year Normals Blanding, Utah*</u>
July	0.32	0.96
August	0.57	1.58
September	1.55	1.02
October	0.93	1.36
November	0.80	0.78
December	0.19	1.25
January	0.31	1.11
February	0.60	0.89
March	1.04	0.87
April	0.07	0.86
May	0.30	0.64
June	0.00	0.50
Annual	6.68	11.82

Site Observations:

Maximum 1-Hour: 0.58 inch, 1200 MST, September 5, 1981.

Maximum 24-hour: 0.93 inch, September 5, 1981.

\*Source: Climatological Data, Utah, National Climatic Center, NOAA, 1981.

The data recovery rate for the precipitation gauge was 100 percent. The drought, which began at the observing site during the summer of 1980, continued with precipitation 43 percent below normal for this annual period.

TABLE 25

TOTAL SUSPENDED PARTICULATES (TSP)  
(micrograms per cubic meter)

<u>Month/1981-82</u>	<u>No. of Samples</u>		<u>Maximum 24-Hour</u>		<u>Geometric Means</u>	
	<u>Site A</u>	<u>Site B</u>	<u>Site A</u>	<u>Site B</u>	<u>Site A</u>	<u>Site B</u>
July	9	5	44	31	24	22
August	8	4	105	103	33	40
September	9	5	67	68	30	27
October	8	6	34	61	16	22
November	6	4	70	55	25	31
December	5	3	32	31	25	23
January	7	5	22	15	13	12
February	9	5	18	17	9	10
March	10	4	110	114	11	17
April	3*	0**	20*	-	19	-
May	4*	0**	25*	-	19	-
June	3*	0**	34*	-	27	-
Summary	81	41	110	114	19	20

\* 7-day samples.

\*\*Hi-vol damaged by high winds.

	<u>National Ambient Air Quality Standards</u>	
	<u>Primary</u>	<u>Secondary</u>
24-Hour	260	150
Annual Geometric Mean	75	60