energy fuels nuclear, inc.
p.o. box 787 • blanding, utah 84511

March 28, 1997

Mr. Joseph Holonich, Chief
High Levle Waste and Uranium Recovery Projects Branch
Division of Waste Management, NMSS (T7 J9)
U. S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2738

Re: **ENERGY FUELS NUCLEAR, INC.**
SUA-1358 DOCKET NO. 40-8681
WHITE MESA MILL, BLANDING, UTAH
Annual ALARA Report LC# 33

Dear Mr. Holonich:

This report constitutes the Annual ALARA Report required under License Condition 33 for 1996.

If you have any questions regarding this report, please contact Mr. Ron Berg or Ms. Shannon Clark at (801) 678-2221.

Sincerely,

R. E. Berg

Ron E. Berg
Radiation Safety Officer

NL05

cc: Linda Howell, Branch Chief
Harold Roberts
Michelle Rehmann
Ron E. Berg
Central File

1.0 Personal Exposure Records:

Exposure records for employees of the White Mesa Mill were complete as of December 31, 1996. Individual employee exposures are determined from airborne gross alpha activity, radon daughters and external radiation.

Item 1.0

The above exposure information provides fundamental data for calculating a **T**otal **E**ffective **D**ose **E**quivalent, **TEDE**, for all mill personnel.

1.0 A. Personnel Exposure to Airborne Gross Alpha Activity:

Uranium air particulate exposures are determined by calculating the gross alpha activity intake an employee may have inhaled while working in a known gross alpha concentration for a known amount of time. A summation of employee exposures received in different areas of the mill is calculated and then compared to the a **D**erived **A**ir **C**oncentration or **DAC** as specified in 10 CFR 20 of the Nuclear Regulatory Commission regulations.

Several NRC approved modifications to the mill were made in the last several years, which have reduced employee exposures in operations areas, in keeping with the principles of ALARA and also improved operating efficiency. These include installation of a central control room, modification to the demister/scrubber control systems and addition of a second yellowcake dryer.

The highest potential uranium airborne particulate exposure to employees at the mill in 1996 occurred during an approximate four month period during which alternate feed material, other than source material, was processed. This feed material consisted of a calcium fluoride concentrate which contained significant concentrations of uranium. The metallurgical processing of this material, which was contained in 55 gallon drums, was processed through the mill recovery circuit and was dried and packaged. It was during drying operations that the highest potential for airborne exposures to mill personnel existed; however no more extraordinary than during normal drying/packaging operations.

The total drying operational time during the year 1996 was 519 hours. The maximum uranium airborne concentration in the totally enclosed dryer room during operational periods was 4.5E-10 µCi/cc. The average uranium airborne concentration during drying operations was approximately 2E-10 µCi/cc. Computation of the Committed Effective Dose Equivalent for this work task utilizes the most restrictive **D**erived **A**ir **C**oncentration, **DAC**, value for insoluble high temperature calcined yellowcake, DAC 2E-11 µCi/cc. All personnel wear respiratory protective devices when entering the dryer/packaging rooms. This requirement is fundamental in keeping with the principles of maintaining exposures to personnel to levels **A**s **L**ow **A**s **R**easonably **A**chievable, **ALARA**.

Additional activities where potential elevated exposure to uranium airborne particulate concentrations and fluoride dust concentrations were experienced was during initial material processing. Calcium fluoride/uranium concentrates were dumped from 55 gallon drums into a mill feed processing tank. Maximum uranium air concentrations and fluoride dust concentrations were determined during this work task. They were 7.14E-10 µCi/cc for uranium concentrations when the drums were being split open and 10.2 milligrams per meter cubed mg/m^3 for fluoride dust concentrations during dumping operations. The average uranium air particulate concentrations and fluoride dust concentrations for this work activity were 5E-11 µCi/cc and 1.3 mg/m^3. Full face respirators, equipped with high efficiency acid gas radionuclide particulate filters were worn by all personnel involved in these material processing tasks.

The highest **C**ommitted **E**ffective **D**ose **E**quivalent to personnel in 1996 was 0.49 REM for an operations shift supervisor. These individuals routinely monitor all aspects of uranium production throughout the entire mill.

1.0 B. <u>Personnel Exposure to Radon Daughters:</u>

Personnel exposures to radon daughters are determined on a time-weighted basis. The results are expressed in working levels. The sum of the exposures to gross alpha and radon daughters are expressed as an employees Committed Effective Dose Equivalent.

During standby mode, elevated radon daughter concentrations tend to be prevalent in the Solvent Extraction (SX) building due to a lack of activity and ventilation in the building. During times when work activities are scheduled in the SX, roof fans are operated to provide building ventilation to lower radon daughter concentrations and maintain exposures ALARA.

Improvements planned by Management to lower operator exposures at the Semi-Autogeneous Grind (SAG) mill for radon daughters were effective as we did not have a radon daughter level that exceeded the 25% action level during 1996 at the SAG mill, or any other sampling location in the mill.

1.0 C. External Radiation (Beta-Gamma).

Whole body external radiation doses are monitored with Thermo-Luminescent Dosimeters (TLD) badges provided and processed by ThermoNUtech. Badges are issued to all operations, maintenance, management and technical staff.

The highest quarterly external radiation exposure to any individual in 1996 at the White Mesa Mill, was 259 mRem/qtr. This exposure was experienced by a labor employee who was most routinely involved with calcium fluoride material processing. Gamma radiation levels for labor employees involved in this work task ranged from 100 mRem/qtr to 259 mRem/qtr. These individuals worked approximately 1.5 quarters during 1996. The highest gamma radiation exposure for a quarter for other mill personnel was 139 mRem/qtr. This exposure was experienced by a mill shift supervisor. In both cases, gamma radiation levels are consistent with area work locations and tasks.

Gamma radiation levels typically ranged from 3 mRem/hr to 5 mRem/hr on the surface of calcium fluoride drums which reflect consistent measured exposures for the CaF_2 labor crew. Gamma radiation levels for the shift supervisors reflect normal residence times in the scalehouse where residual uranium ores contribute to elevated gamma emitting photon energy in that area.

There are no practicable ALARA practices which will reduce exposures to individuals in those work locations or job tasks.

1.0 D. Total Effective Dose Equivalent (TEDE):

The highest Total Effective Dose Equivalent for any individual at the White Mesa Mill in 1996 was 0.55 Rem. This assessment is a result of applying the most restrictive DAC limits to areas throughout the mill site and amounts to slightly over 10% of the Total Effective Dose Equivalent limit of 5 Rem/yr. This is in keeping with the practice and principles of ALARA.

2.0 Bioassays:

U S NRC Regulatory Guide 8.22 "Bioassays at Uranium Mills, Part C" states that frequent bioassays are necessary for employees that are routinely exposed to yellowcake dust, uranium ore dust, or involved in maintenance tasks in which potential yellowcake exposure may occur.

2.0 A. In-Vivo Bioassay:

Amendment No. 9 issued October 7, 1987 has released Energy Fuels Nuclear, Inc. (EFN) from performing in-vivo measurements of mill personnel. Measurements shall be performed in accordance with the recommendations contained in Revision 1 of Regulatory Guide 8.22.

2.0 B. Urinalysis:

During the period of January 1 through December 31, 1996, 1,059 urinalyses were performed by the White Mesa Mill internal laboratory. Of these urinalyses, blanks , spikes and duplicate samples accounted for 50 percent (50%) of the total. As a quality assurance measure, 10 percent (10%) of these samples were submitted to Western Analytical Laboratory for verification of the internal laboratory's performance.

Quality assurance results showed acceptable results from both laboratories.

During 1996 several bioassays exceeded the 15 µg/l action level. The majority of these elevated samples were due to contamination of sample or contamination in the laboratory processing. Investigation reports for these occurrences are kept on file at the mill.

3.0 Documented Reports of Daily, Weekly & Monthly Inspections:

3.0 A. Daily Inspections:

The White Mesa Mill was in an abeyant state of operations for approximately six months of 1996. The mill initiated operations in May of 1996 and processed calcium fluoride/uranium contained material until the end of August 1996. During the operational period all process phases of the mill were activated and the metallurgical/recovery of uranium proceeded through normal process circuits. Radiological, safety and management personnel were throughout the mill area at all times during this period. These records are maintained at the mill.

3.0 B. Weekly Inspections:

Routine weekly inspections of the mill were made by the RSO and Operations Supervisor or designees. Particular attention was focused on areas where potential exposures to personnel might exist and in areas of operation or locations where contamination potential was evident. Weekly Mill Inspection Reports are on file for the entire year of 1996.

3.0 C. Monthly Inspections:

Reports of all radiological, environmental and safety issues identified in daily and weekly inspection reports are summarized in a monthly report to the Plant Manager and President of EFN. In addition, all radiological and safety monitoring results are included in these reports. These reports are maintained on file at the mill.

The identical inspection and reporting criteria that was exercised during processing/operating periods was also maintained during non-operational periods. The inspection, reporting and monitoring frequency was not diminished during non-operational periods.

4.0 Training Program Activities:

4.0 A. Bi-Annual Radiation Training for the RSO:

This training was administered by the Department of Energy with documentation on file.

4.0 B. Radiation Safety Refresher Training:

Sixty-three employees in the year 1996 received eight hour refresher safety training in accordance with White Mesa Mill's MSHA training plan. This includes annual radiation safety training.

4.0 C. Hazard Training:

Hazard training was provided to all contract personnel who provided service for the White Mesa Mill.

5.0 Radiation Safety Meetings:

Radiation safety meetings, including several specific discussions, regarding multiple hazard recognition, PPE use and precautions associated with calcium fluoride processing were discussed and recorded. Relevant information regarding Threshold Limiting Values (TLV's) for fluoride dust concentrations as well as potential exposure was presented to all individuals.

6.0 Mill Radiological Survey Data:

Radiological surveys all throughout the year of 1996 were performed at frequencies and locations equivalent to normally and historically established protocol.

6.0 A. Airborne Particulate Sampling:

Airborne particulate samples were collected in twenty-six area locations at least once per month in 1996. During mill operating periods, yellowcake precipitation, drying and packaging area were sampled weekly. Operations where calcium fluoride uranium concentrate materials were introduced into the mill recovery circuit, were sampled for airborne particulate con-

trations weekly. The results of those samples are illustrated in graphs one through thirteen.

Area airborne gross alpha concentrations were maintained below 25% of DAC at all sampling locations during 1996 with the exceptions of the yellowcake dryer and packaging enclosures, yellowcake packaging, the SAG mill and calcium fluoride dump tank area.

The yellowcake dryer and packaging enclosures have always been posted as Airborne Radioactivity Areas. Full face respiratory protection is required when entering these areas. Because of the short duration of the mill run, no trends can be established. When compared to past operating periods, however, airborne concentrations in these areas have been reduced with the addition of the second dryer.

Airborne concentrations at the SAG mill show an upward trend during processing of CaF_2 material. The increased airborne concentration is attributed to the rich grade of CaF_2 material being processed during this time. The SAG mill was posted as an Airborne Radioactivity Area, as airborne concentrations were verified above 25% of the DAC.

6.0 B. <u>Surveys of Radon Daughters:</u>

Radon daughter surveys are conducted monthly at twenty-seven (27) locations throughout the mill. Exposures are determined by the Modified Kusnetz method and expressed as working levels.

Graphs showing monthly and yearly average radon daughter concentrations have been included to evaluate trends. (See graphs 14 through 31).

Radon daughter concentrations are lower for the 1996 operating period than have been observed during past operating periods. The effectiveness of the modifications to the mill demister system and the previously improved mill ventilation systems have lowered radon daughter concentrations at all sampling locations in the mill.

As an ALARA measure the solvent extractor mix tanks were cleaned out and the uranium SX feed lines were cleaned out

and/or replaced to reduce exposure potential. Cleanup of the launderers in the SX circuit, where material has accumulated from past operating periods, has helped to reduce radon levels.

Management commitments have included comprehensive cleanup campaigns, several washdowns of the mill buildings and improvements to the leach demister system to reduce radon concentrations at the SAG mill and reduce fumes throughout the mill during operating periods. The addition of a central control room has effectively reduced worker exposures over past operating periods, not only to radon daughters, but to airborne gross alpha activity as well.

6.0 C. Weekly Alpha Surveys:

Alpha surveys are conducted weekly at the office and other designated eating areas within the mill. The surveys are used to identify areas of surface contamination, and evaluate the effectiveness of contamination controls.

Weekly alpha surveys commonly range between 25 DPM/100cm^2 to 250 DPM/100cm^2 for the lunch room, change room and offices, for removable alpha. The laboratory exhibits removable alpha contamination levels of $\leq$ MDA to 25 DPM/100cm^2. Fixed alpha contamination for the above areas range between 250 DPM/100cm^2 to 1200 DPM/100cm^2. There is essentially zero fixed alpha contamination in the laboratory.

6.0 D. Survey of Material Released from the Restricted Area, Including Product Shipments:

Numerous yellowcake shipments were released from the property during 1996. All barrels shipped were surveyed as required by established NRC and DOT guidelines.

Any barrels above 1,000 DPM/cm^2 fixed alpha contamination were surveyed for removable alpha. A minimum of 25% of the barrels in each lot were surveyed for removable alpha contamination. Gamma surveys were conducted on each tractor trailer as required under DOT exclusive use shipment guidelines.

6.0 E. Survey of Employees Leaving the Restricted Area:

Employees leaving the restricted area are required to be monitored for alpha contamination. A log sheet is initialed daily by the employees each time they scan prior to leaving the restricted area. The log sheets are then turned in daily to the Radiation Safety department for evaluation and filing. The instruments used to conduct the surveys were calibrated at the required frequency and the alarm point set at approximately 650 DPM/100cm^2. Quarterly spot checks of employees have been done as required.

6.0 F. In-plant Beta-Gamma Radiation:

Beta-Gamma surveys are conducted quarterly at the locations specified in Table 5-5-2 of the Mill License Application. The yellowcake storage yards, top floor of the yellowcake calciner, SX uranium feed lines, the solvent extraction mix tanks, and calcium fluoride storage areas are posted as Radiation Areas.

Quarterly beta-gamma surveys conducted throughout the mill show gamma activity at the solvent extraction mix tank circuit have decreased since the cleanup activities at the mix tanks and launder were completed. Levels were also lowered when solutions were placed in these tanks during operations. Area TLDs verify these results.

Area TLDs furnished by Thermo NUtech are used to confirm monthly beta-gamma survey results throughout the mill. Graphs 32 through 41 show quarterly results and a yearly average at each location surveyed for determining trends. The table in this sections shows area TLD badge numbers associated with location names, i.e. area 22 is at the North end of the SX building.

7.0 Review of Radiation Work Permits:

When a Radiation Work Permit (RWP) is issued, it is numbered and logged as to who requested the permit. The location, date issued and other relevant information are listed to help track permits and maintain exposure ALARA.

Any job requiring work in the yellowcake dryer and packaging enclosure requires a member of the Radiation Staff to be present for the duration of the job. Each permit is reviewed daily as to the status of the permit.
Radiation Work Permits are issued for non-routine maintenance work tasks where exposure potential may exist at levels undetermined or at levels known to be elevated. Numerous RWPs were issued during the year 1996. The highest RWP exposure work task involved working in the yellowcake dryer area, as expected. RWPs describe monitoring, surveys and appropriate PPE and engineering controls necessary to maintain radiation exposures to individuals to levels as low as reasonably achievable, ALARA. These documents are on file at the mill.

Employee exposures are maintained ALARA during work permits through engineering controls and established management practices. Verification of the effectiveness of these practices is monitored through breathing zone sampling. This is further supported by the bioassay sampling program in which no employee bioassays working on RWP jobs exceeded the 15 µg/l action level during 1996.

8.0 Calibration:

All equipment used to conduct Health Physics surveys has been calibrated within the required frequency for each instrument. All air sampling equipment and alpha radiation equipment is calibrated internally. Gamma and radon daughter sampling equipment is sent to vendors for calibration.

9.0 Stack Sampling:

Stack sampling information is included in the July 1, 1996 through December 31, 1996 Semi-Annual Report.

Area Airbornes

Gross Alpha

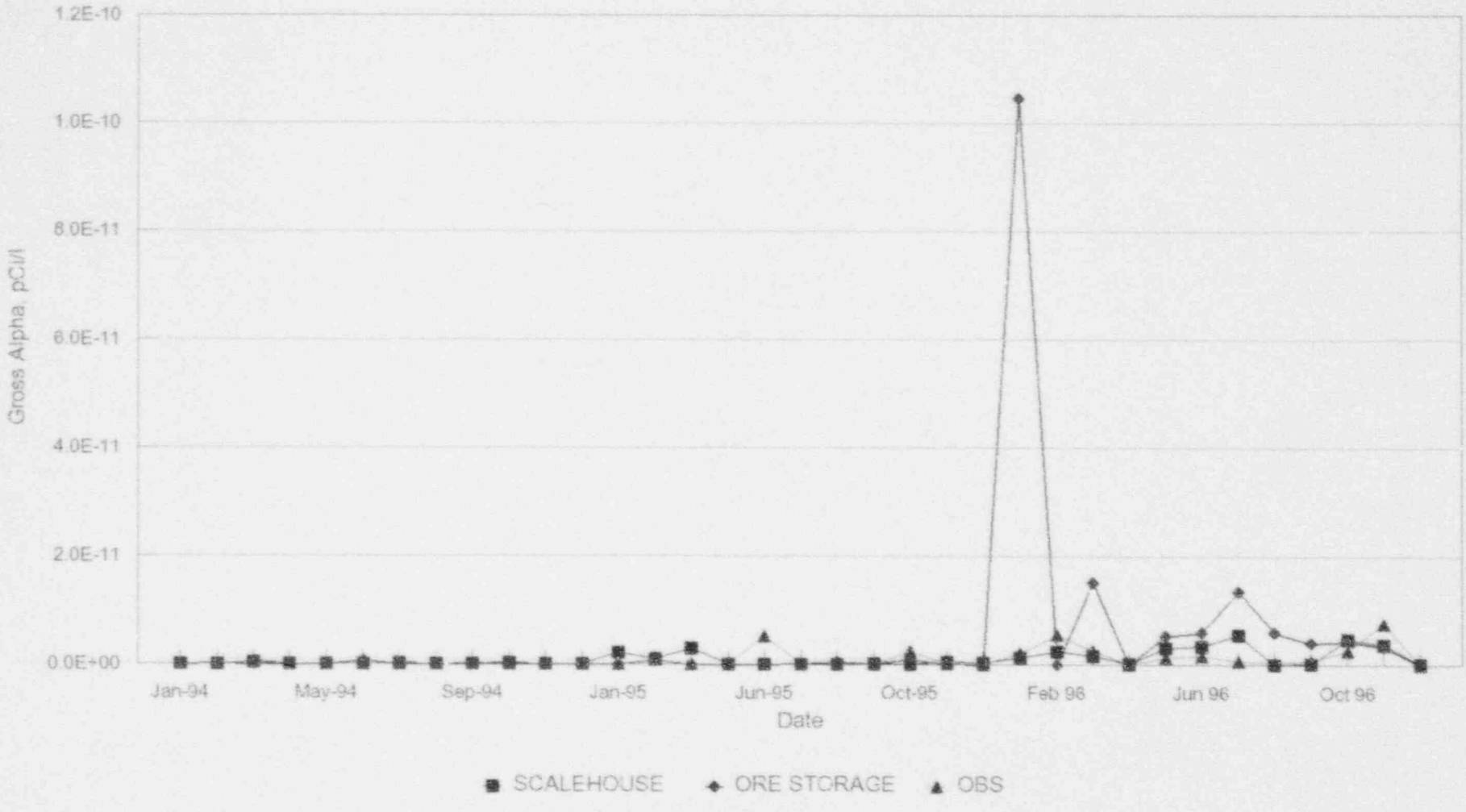
RADIATION MONITORING - AREAS

AIRBORNE RADIATION SAMPLE LOCATIONS

CODE	Location/Description
1	Ore Scalehouse
2	Ore Storage
6	Sample Plant
7	Sag Mill Area
7A	Sag Mill Control Room
8	Leach Tank Area
9	CCD Circuit Thickners
10	SX Building North Area
11	SX Building South Area
12	YC Precipitation & Wet Storage Area
12A	North YC Dryer Enclosure
12B	South YC Dryer Enclosure
13	YC Drying & Packaging Area
13A	YC Packaging Enclosure
14	Packaged YC Storage Room
15	Metallurgical Lab Sample Prep Room
16	Lunch Room Area (New Training Room)
17	Change Room
18	Administration Building
19	Warehouse
20	Maintenance Shop
21	Boiler
22	Vanadium Panel
24	Tails
25	Control Room
26	Shifters Office
27	Operators Lunch Room
28	Met Lab

ENERGY FUELS NUCLEAR, INC.

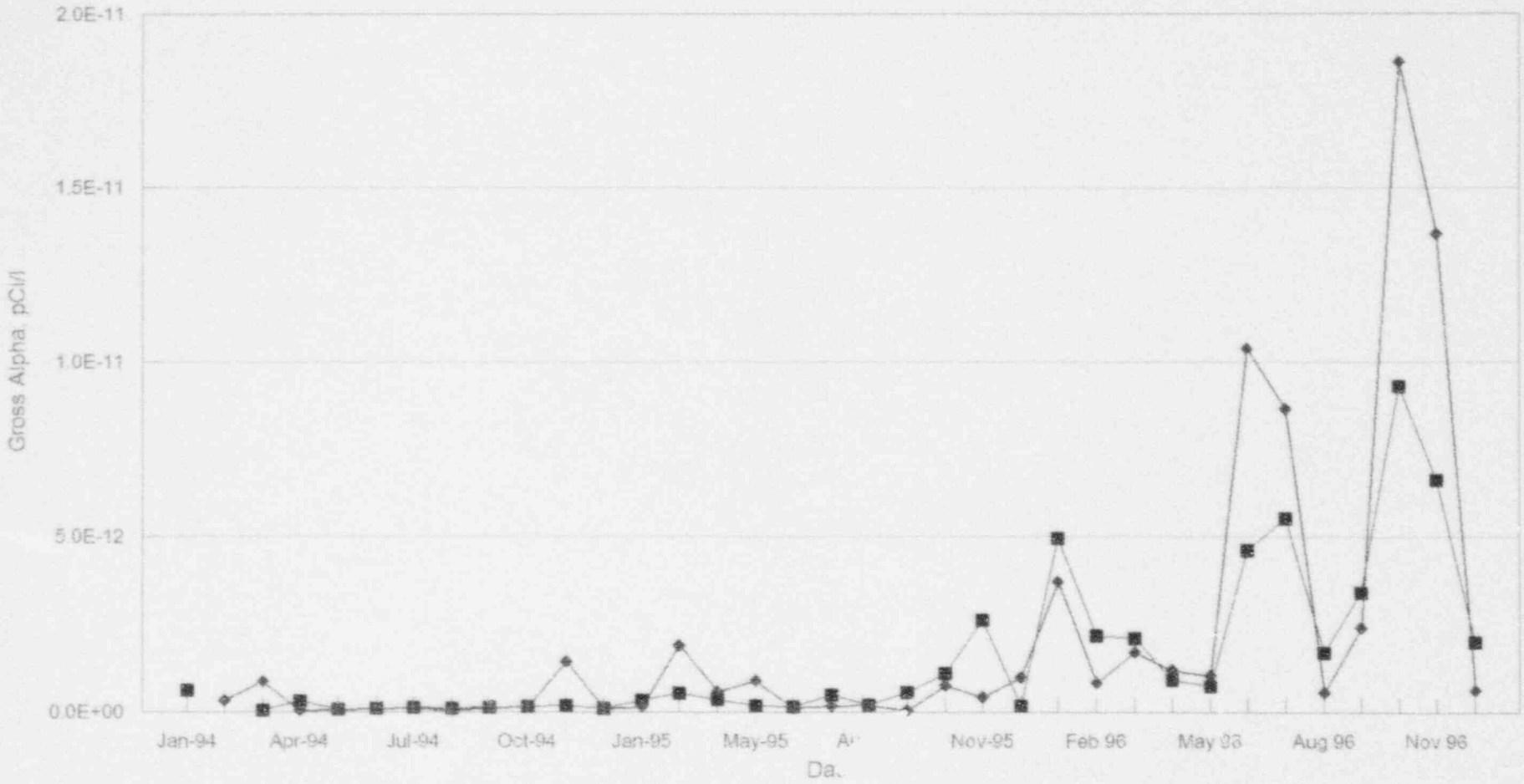
Monthly Concentrations



Graph 1

ENERGY FUELS NUCLEAR, INC.

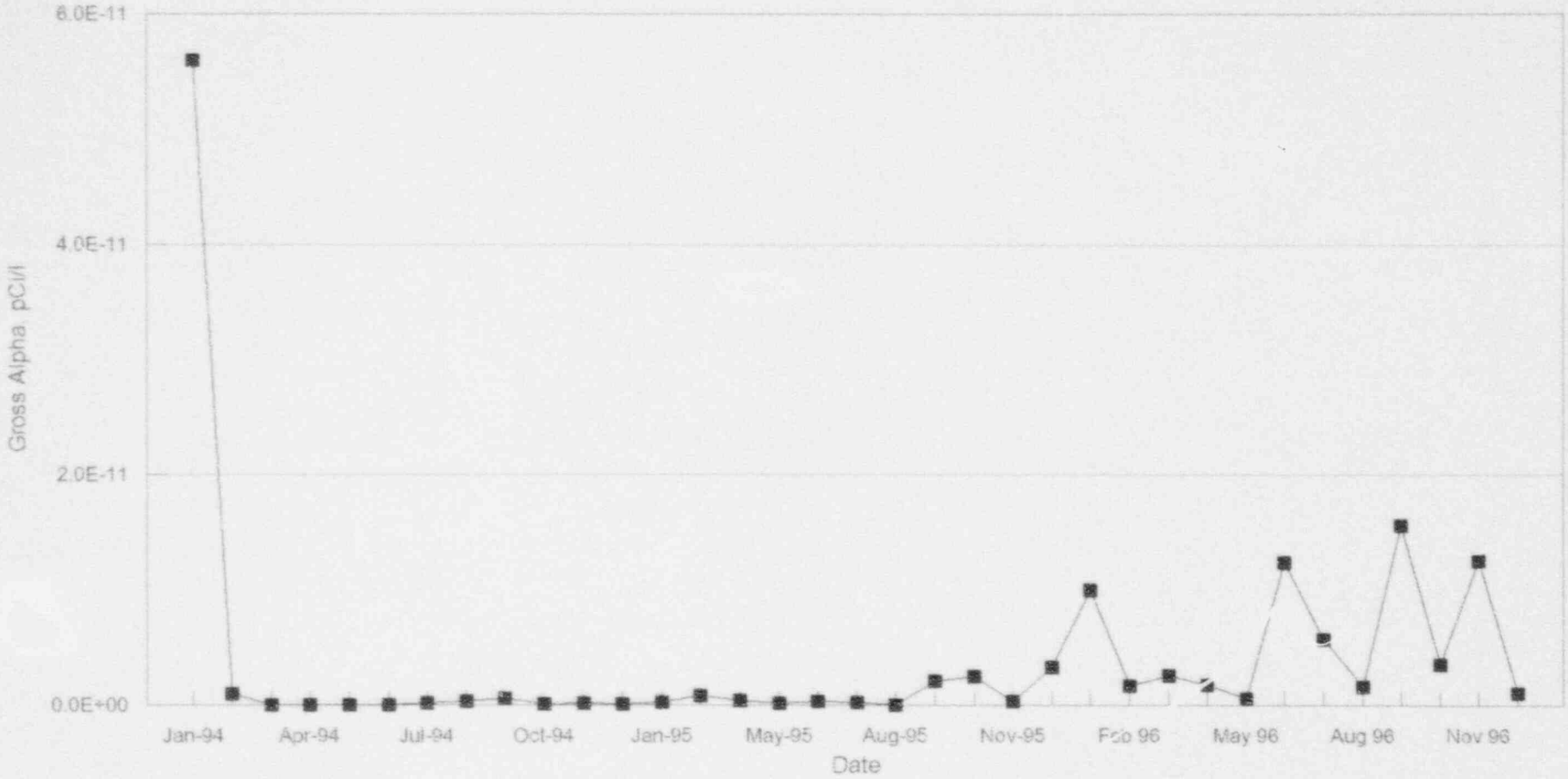
Monthly Concentrations



Graph 2

ENERGY FUELS NUCLEAR, INC.

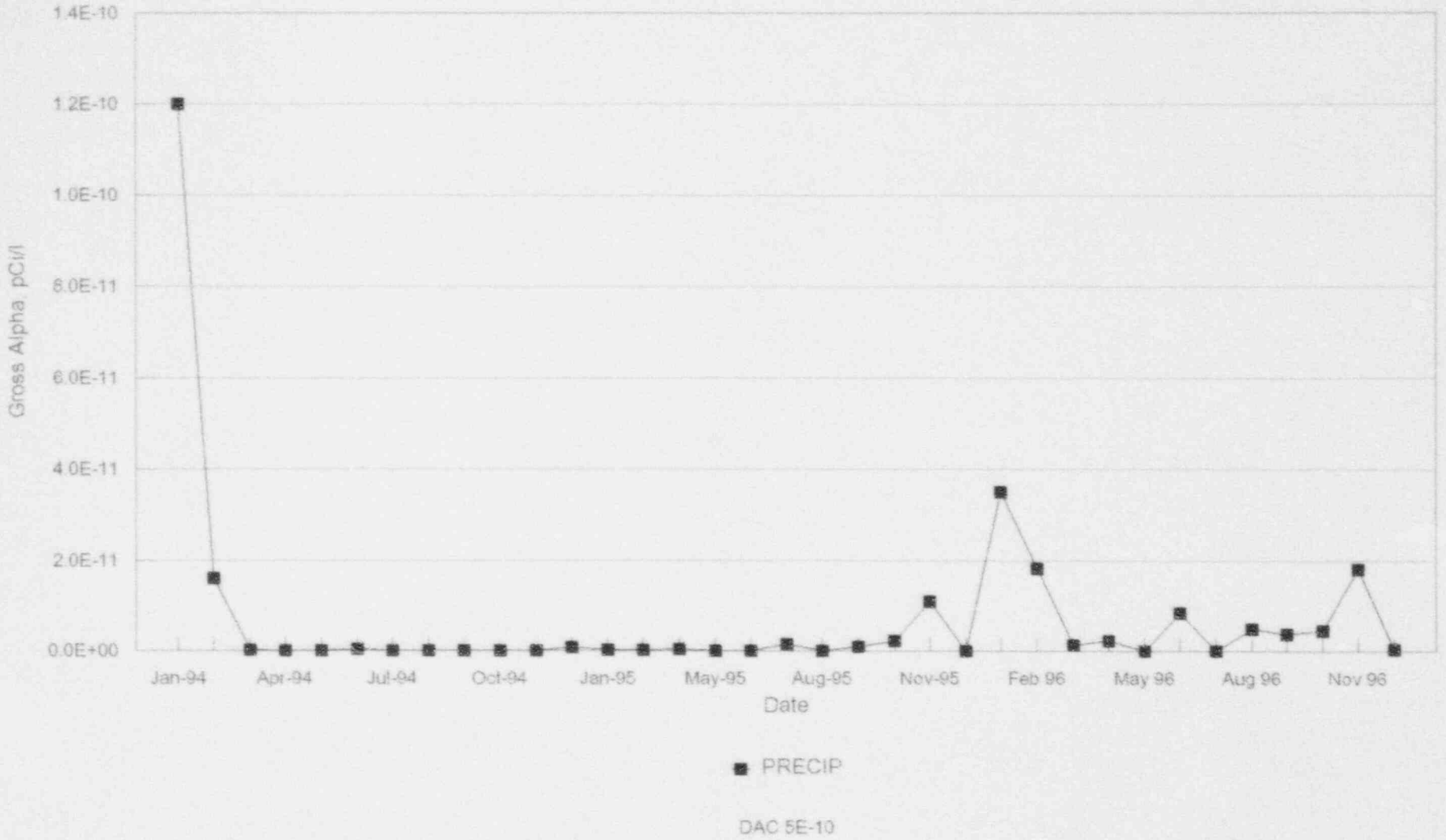
Monthly Concentrations



Graph 3

ENERGY FUELS NUCLEAR, INC.

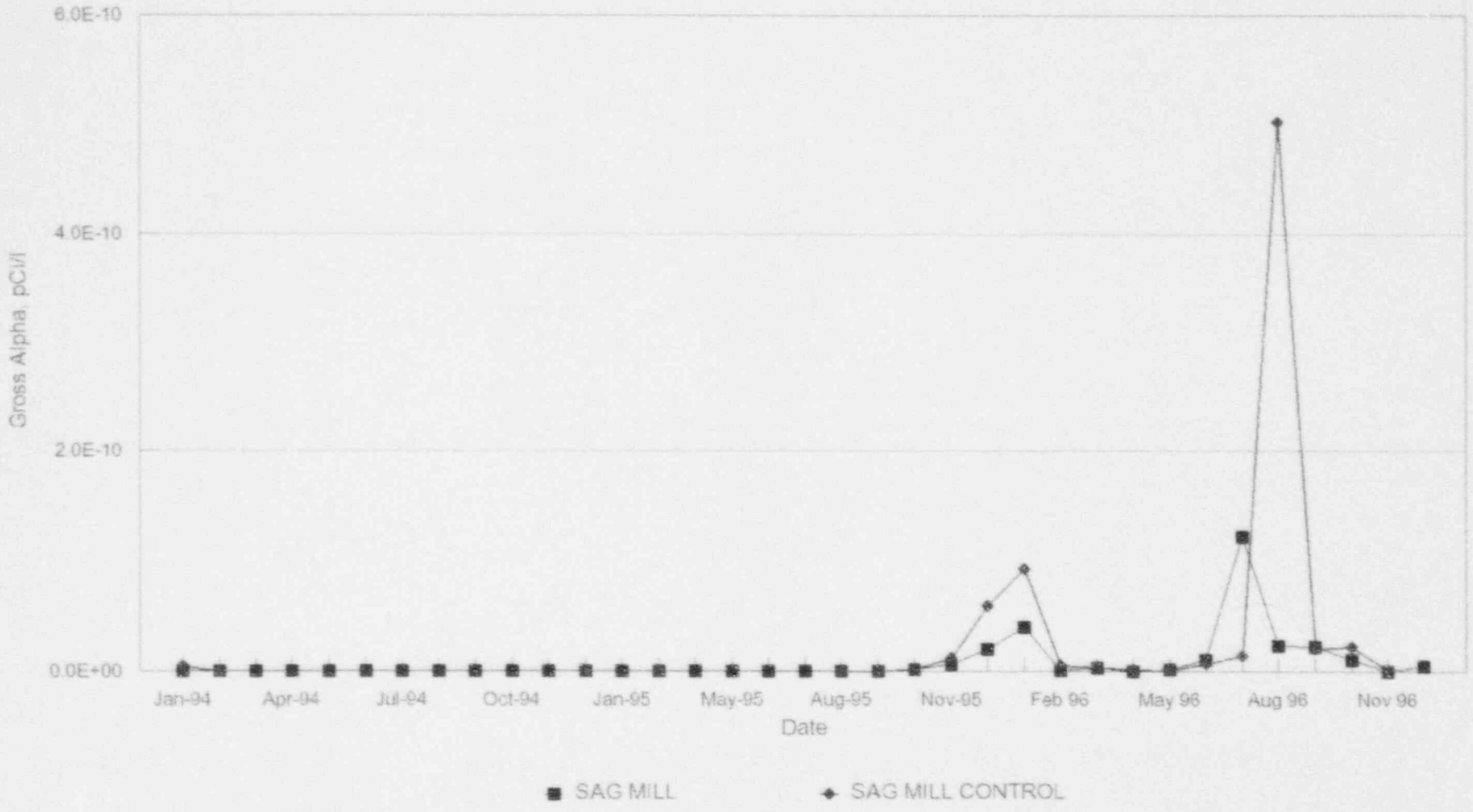
Monthly Concentrations



Graph 4

ENERGY FUELS NUCLEAR, INC.

Monthly Concentrations

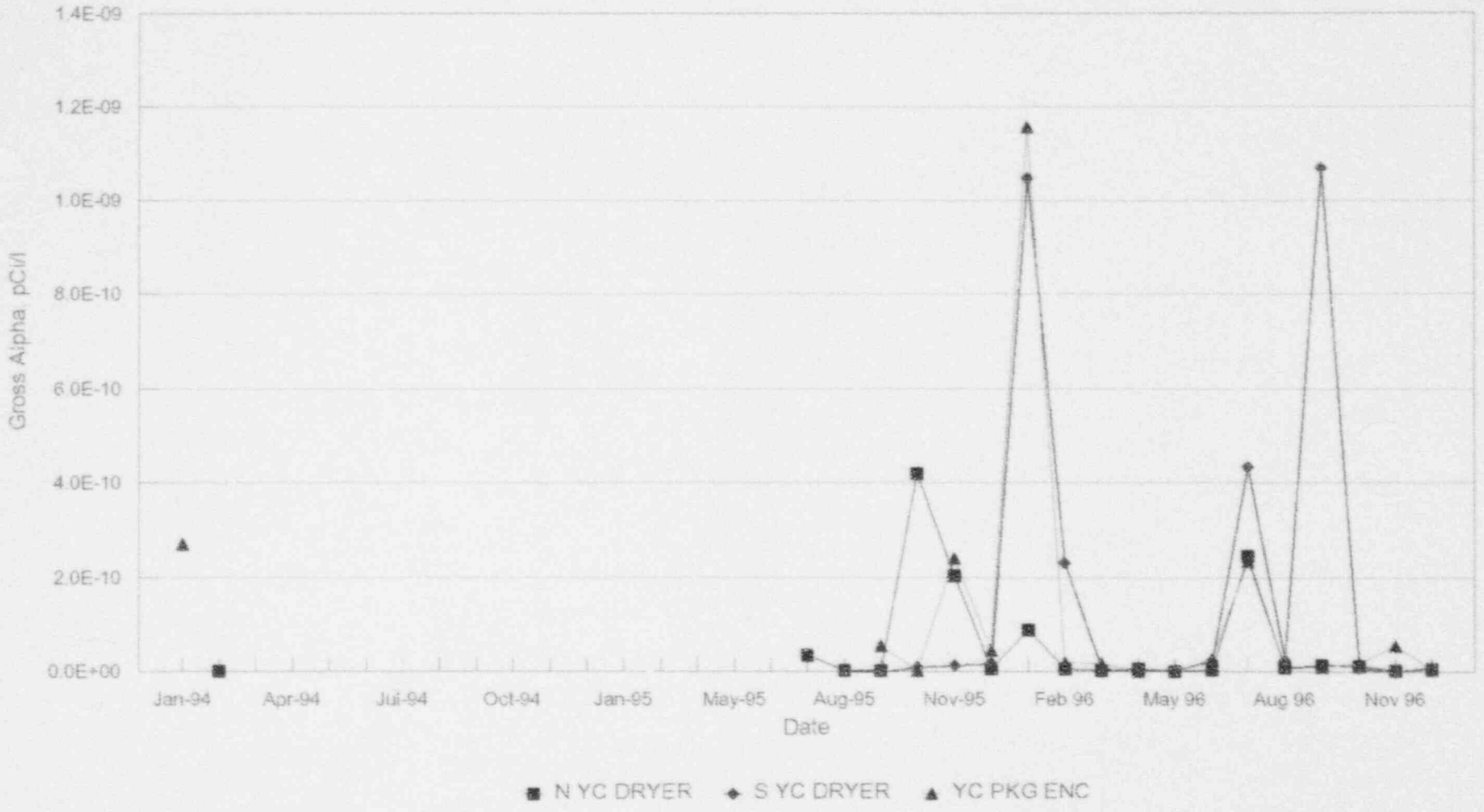


DAC 6E-11

Graph 5

ENERGY FUELS NUCLEAR, INC.

Monthly Concentrations

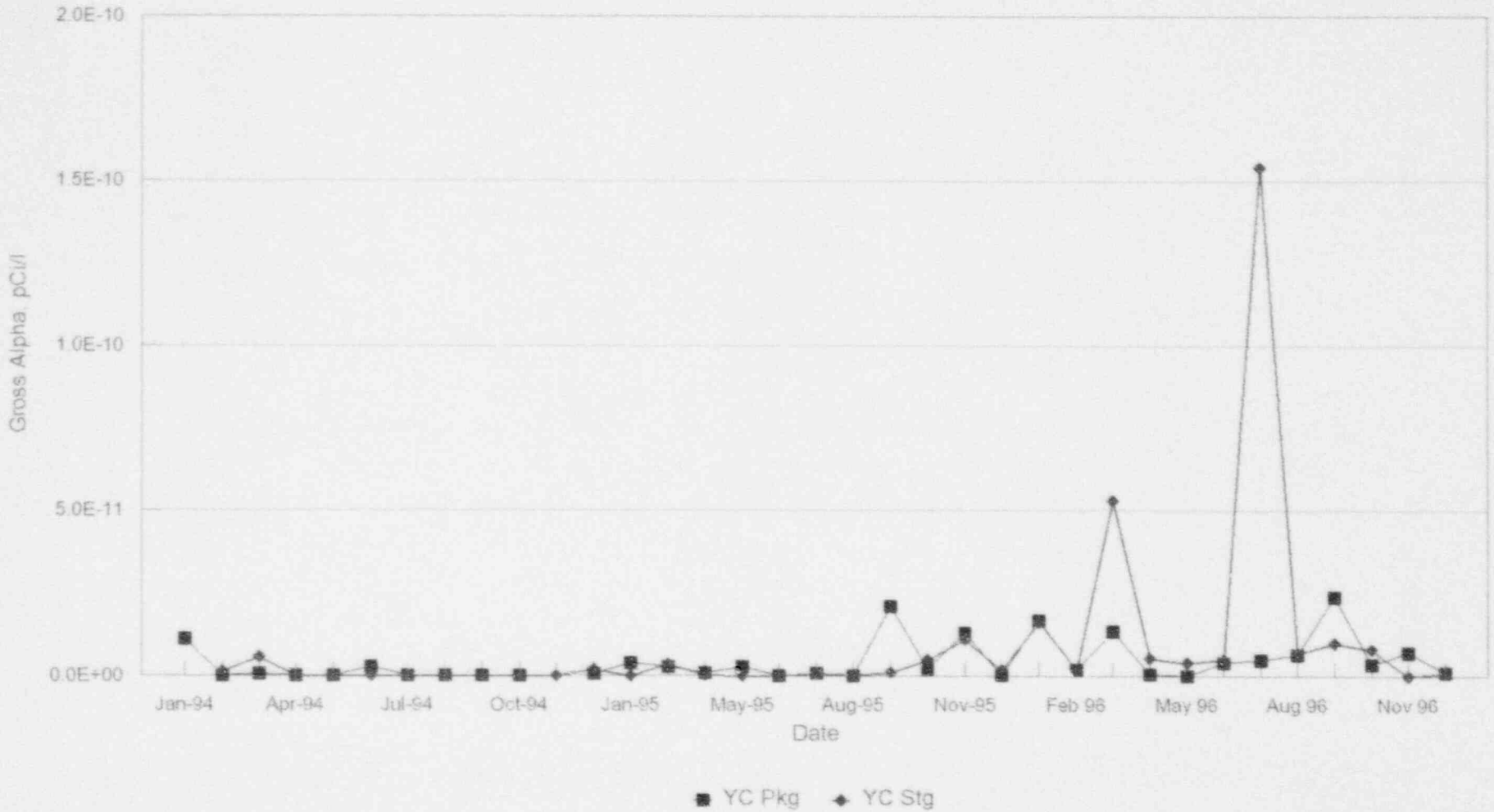


DAC 2.2E-11

Graph 6

ENERGY FUELS NUCLEAR, INC.

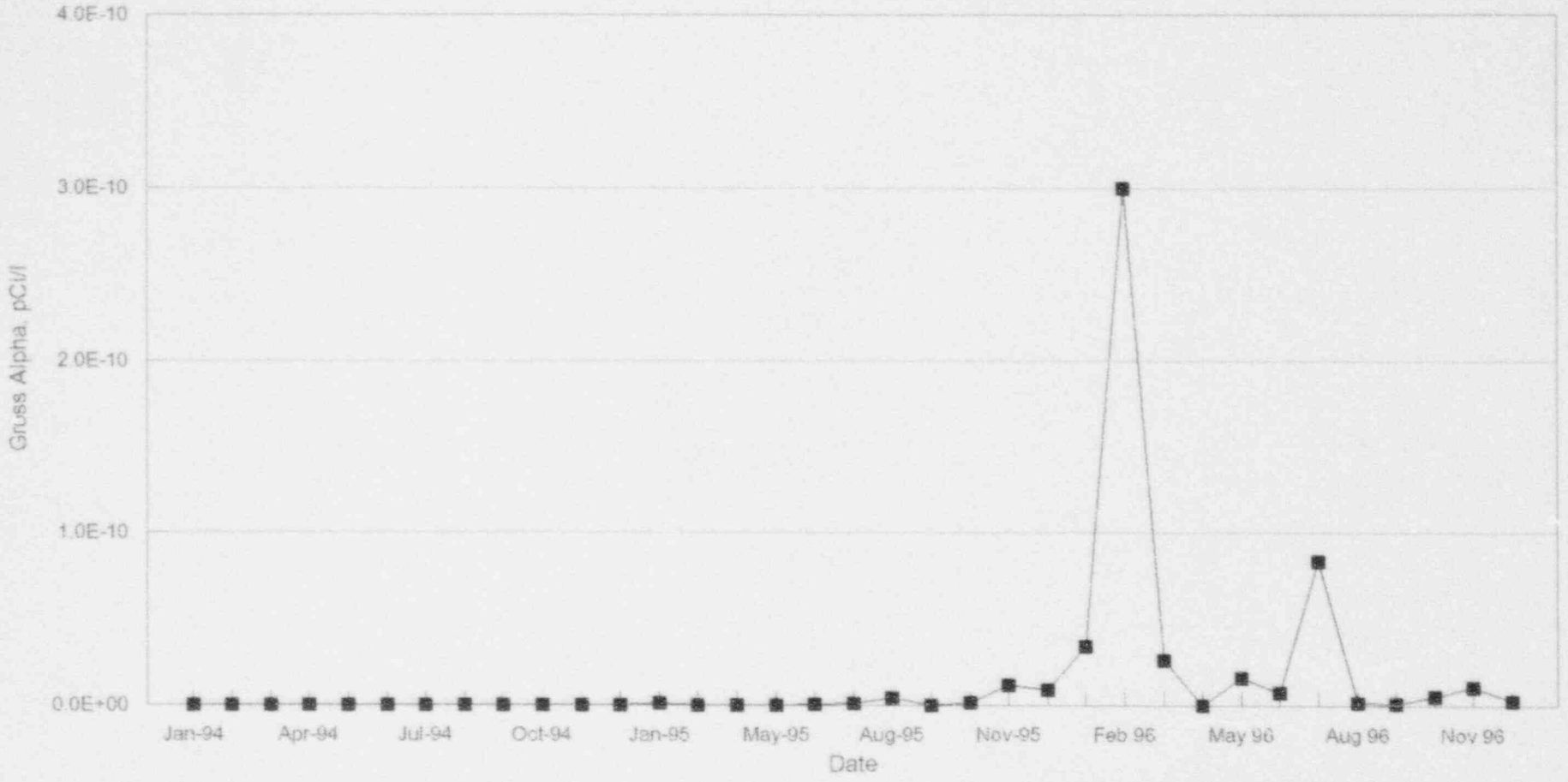
Monthly Concentrations



Graph 7

ENERGY FUELS NUCLEAR, INC.

Monthly Concentrations

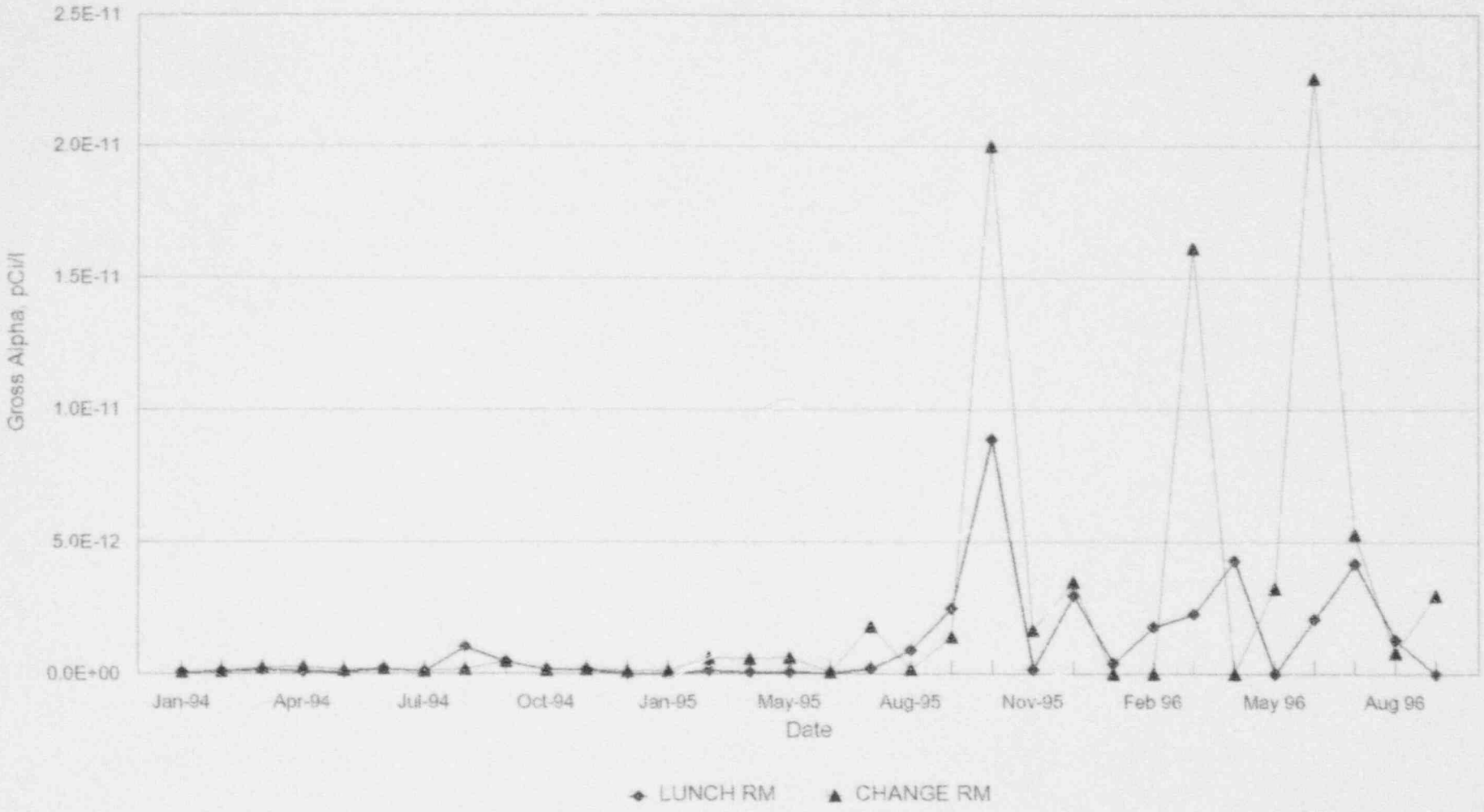


DAC 6E-11

Graph 8

ENERGY FUELS NUCLEAR, INC.

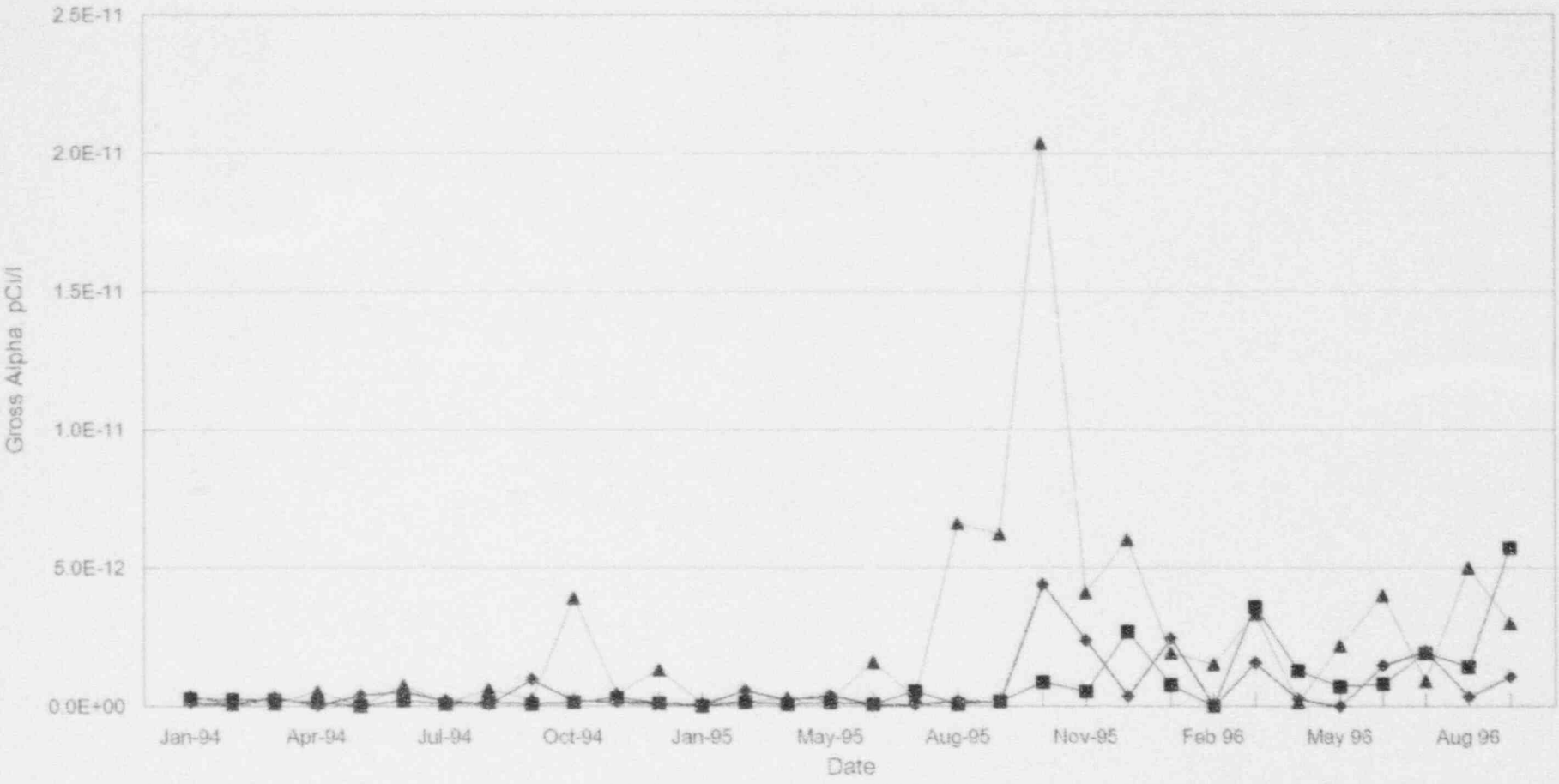
Monthly Concentrations



Graph 9

ENERGY FUELS NUCLEAR, INC.

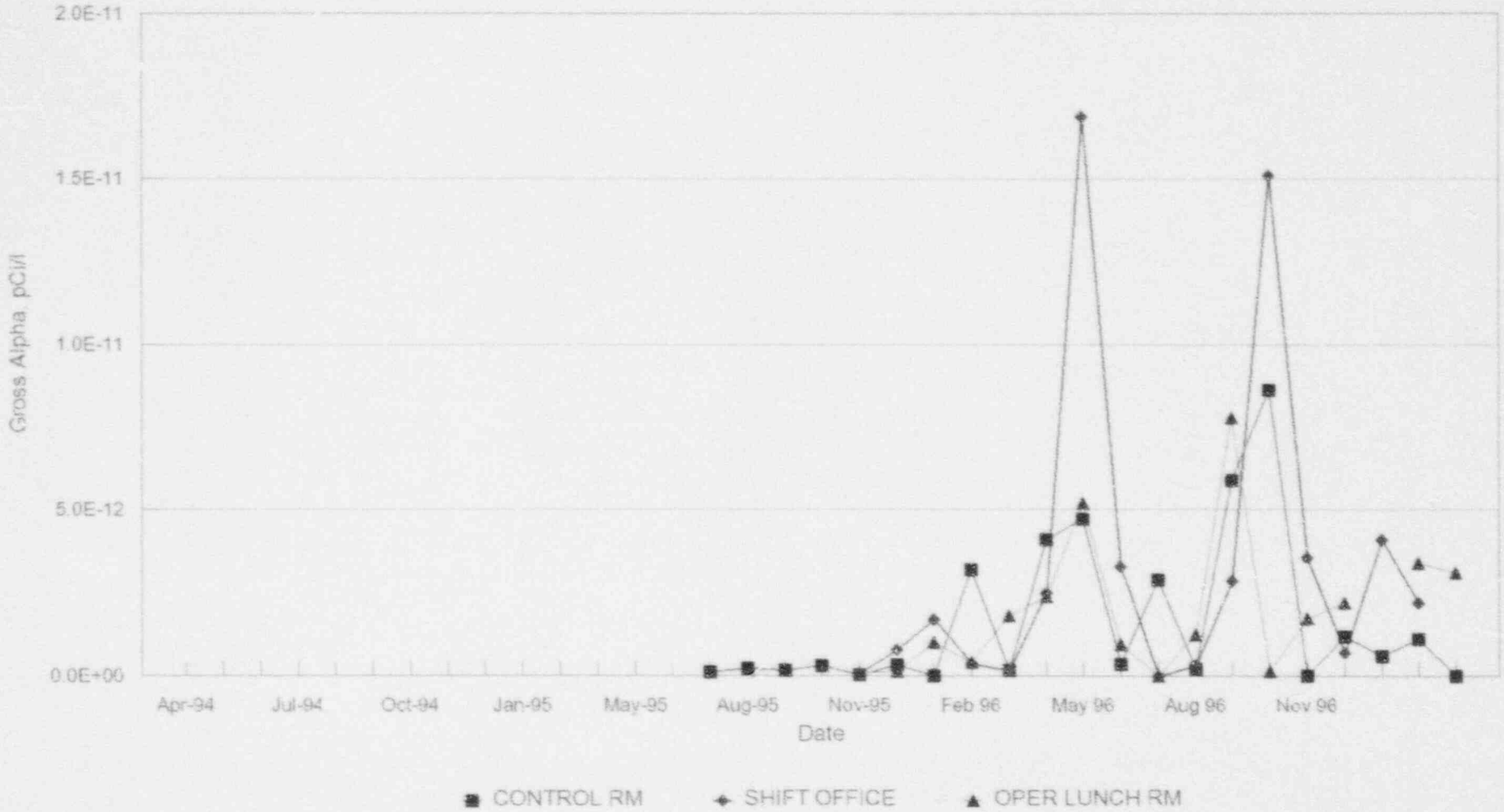
Monthly Concentrations



Graph 10

ENERGY FUELS NUCLEAR, INC.

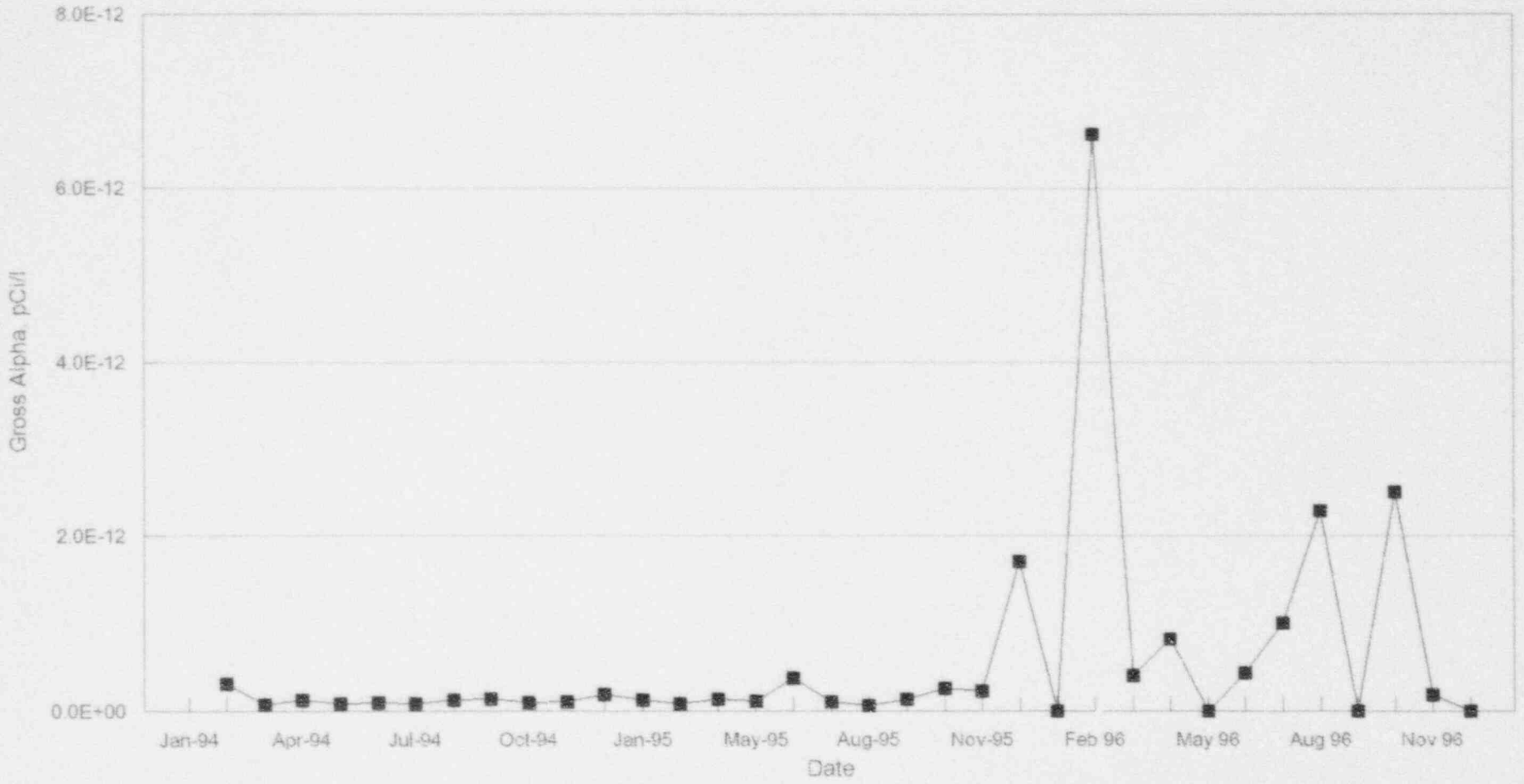
Monthly Concentrations



Graph 11

ENERGY FUELS NUCLEAR, INC.

Monthly Concentrations

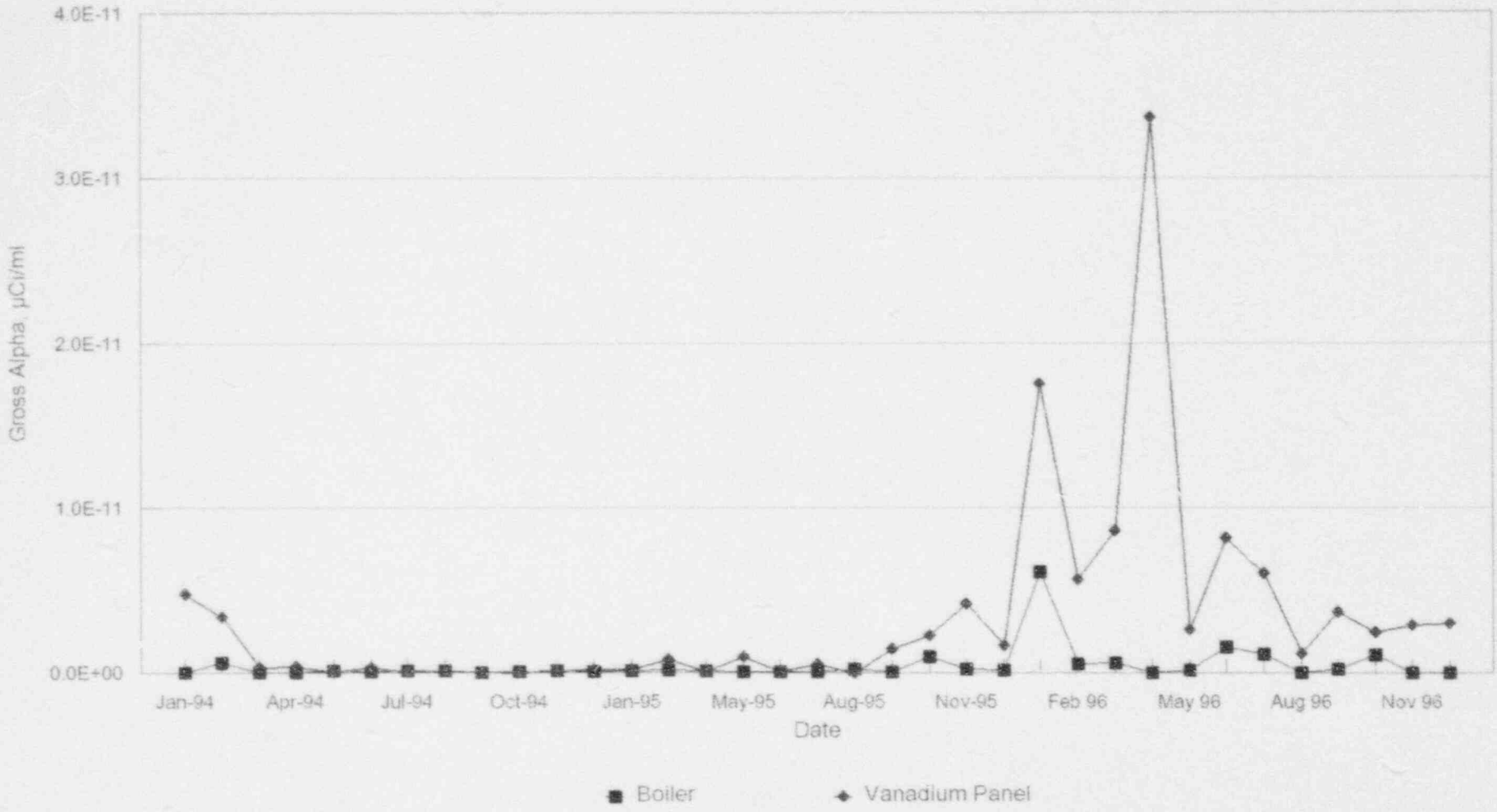


DAC 1.7E-11

Graph 12

ENERGY FUELS NUCLEAR, INC.

Monthly Concentrations



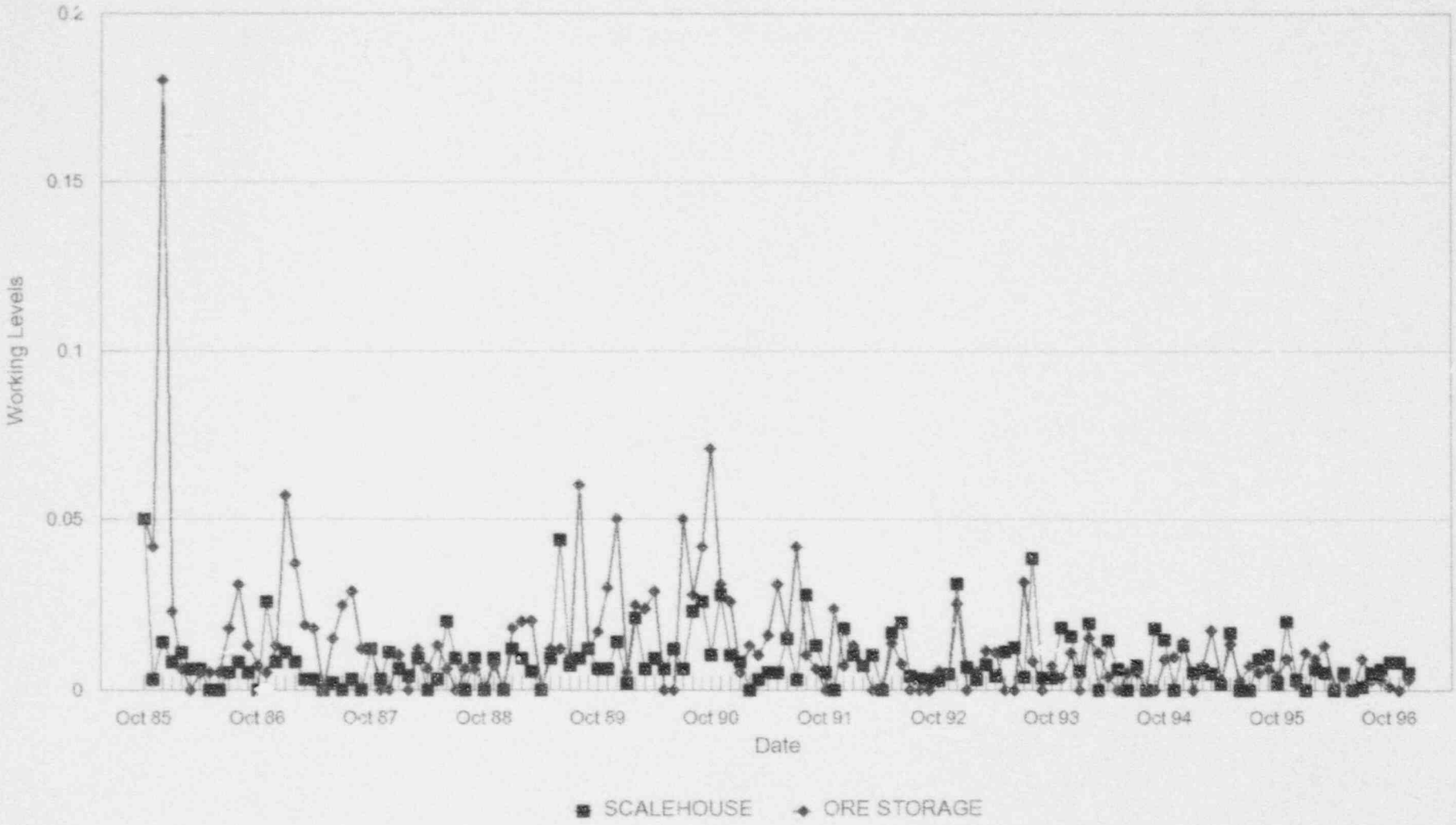
Graph 13

Area Airbornes

Radons

ENERGY FUELS NUCLEAR, INC.

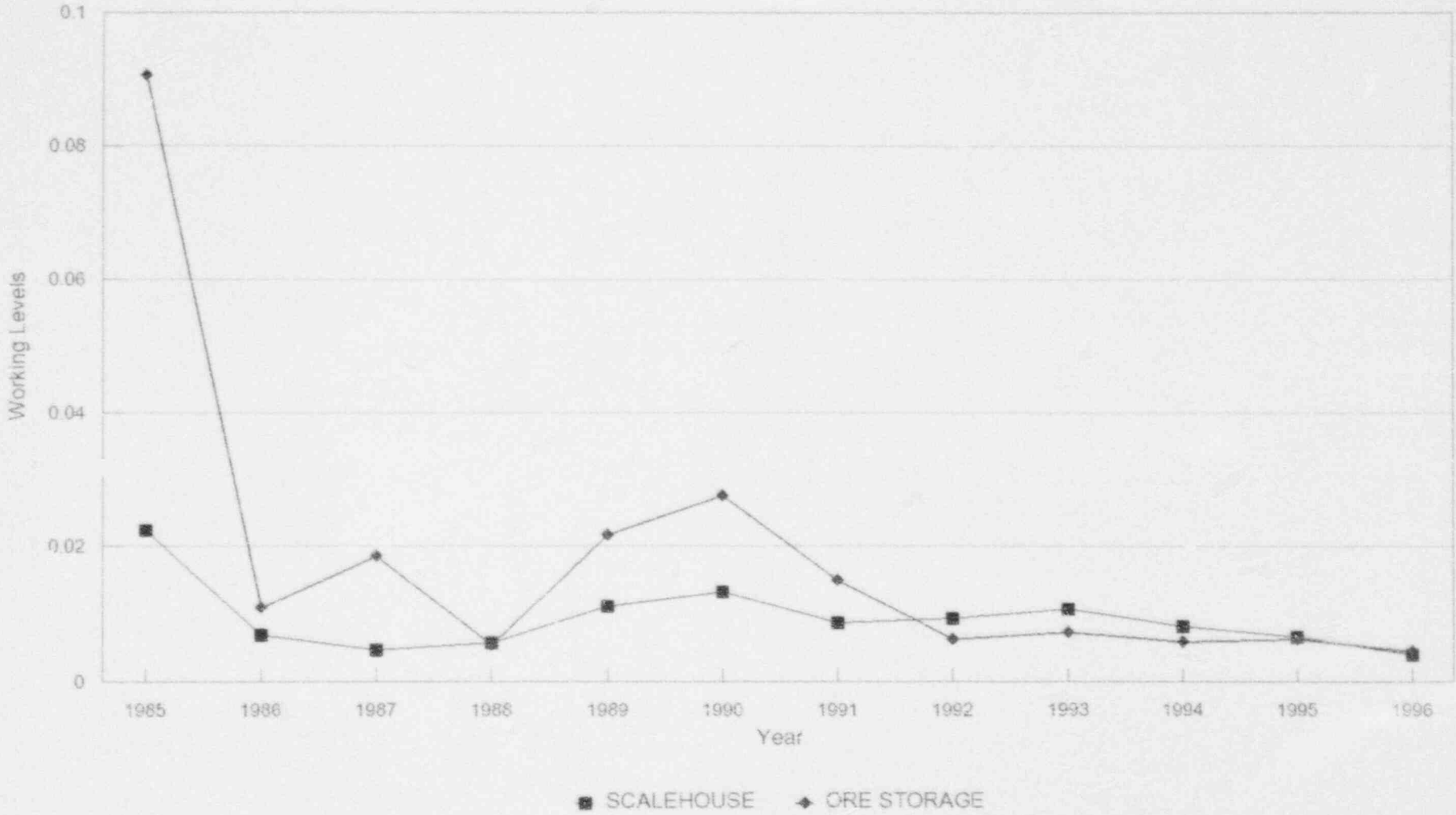
Monthly Radon Daughter Concentrations



Graph 14

ENERGY FUELS NUCLEAR, INC.

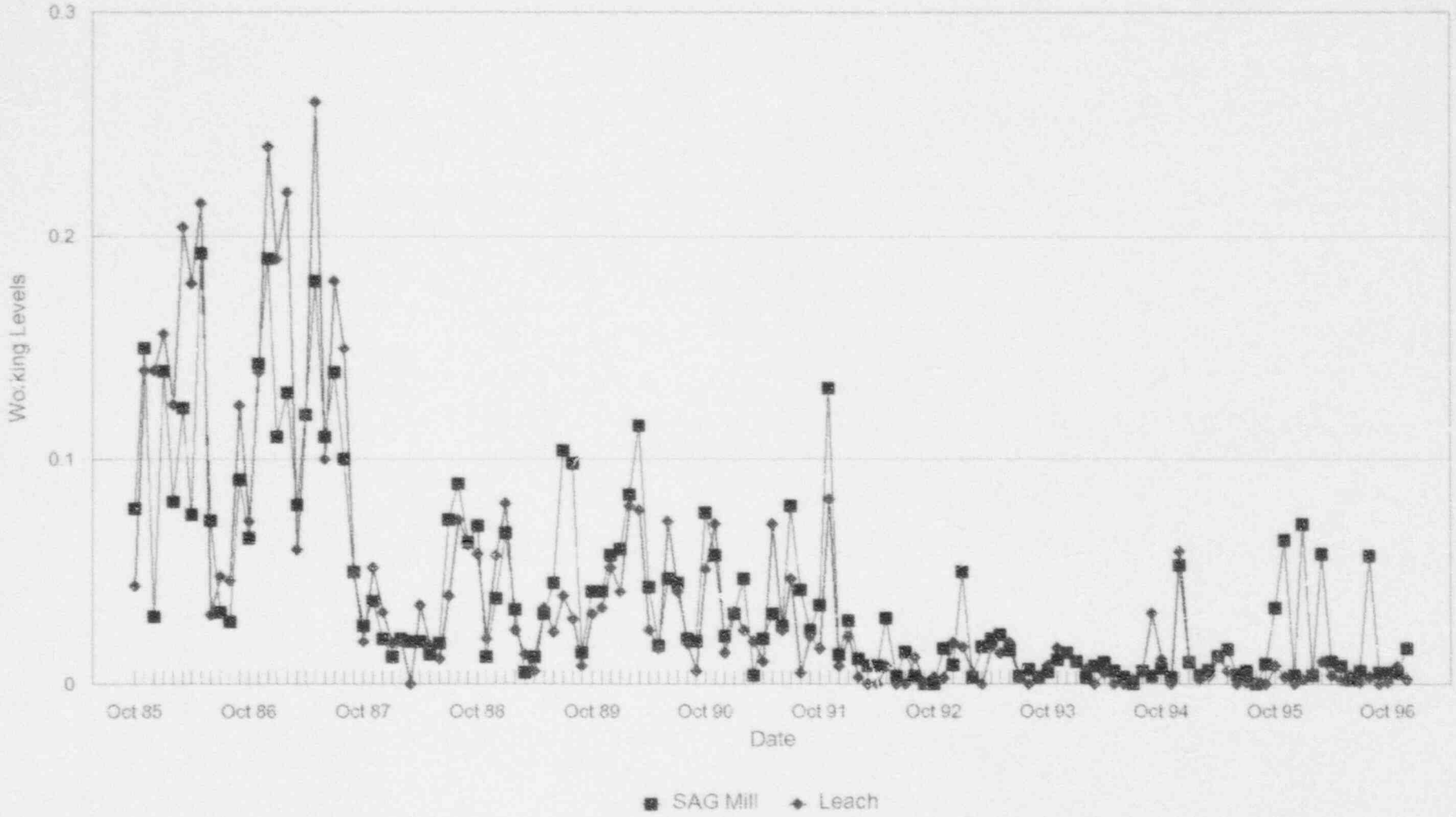
Average Yearly Radon Daughter Concentrations



Graph 15

ENERGY FUELS NUCLEAR, INC.

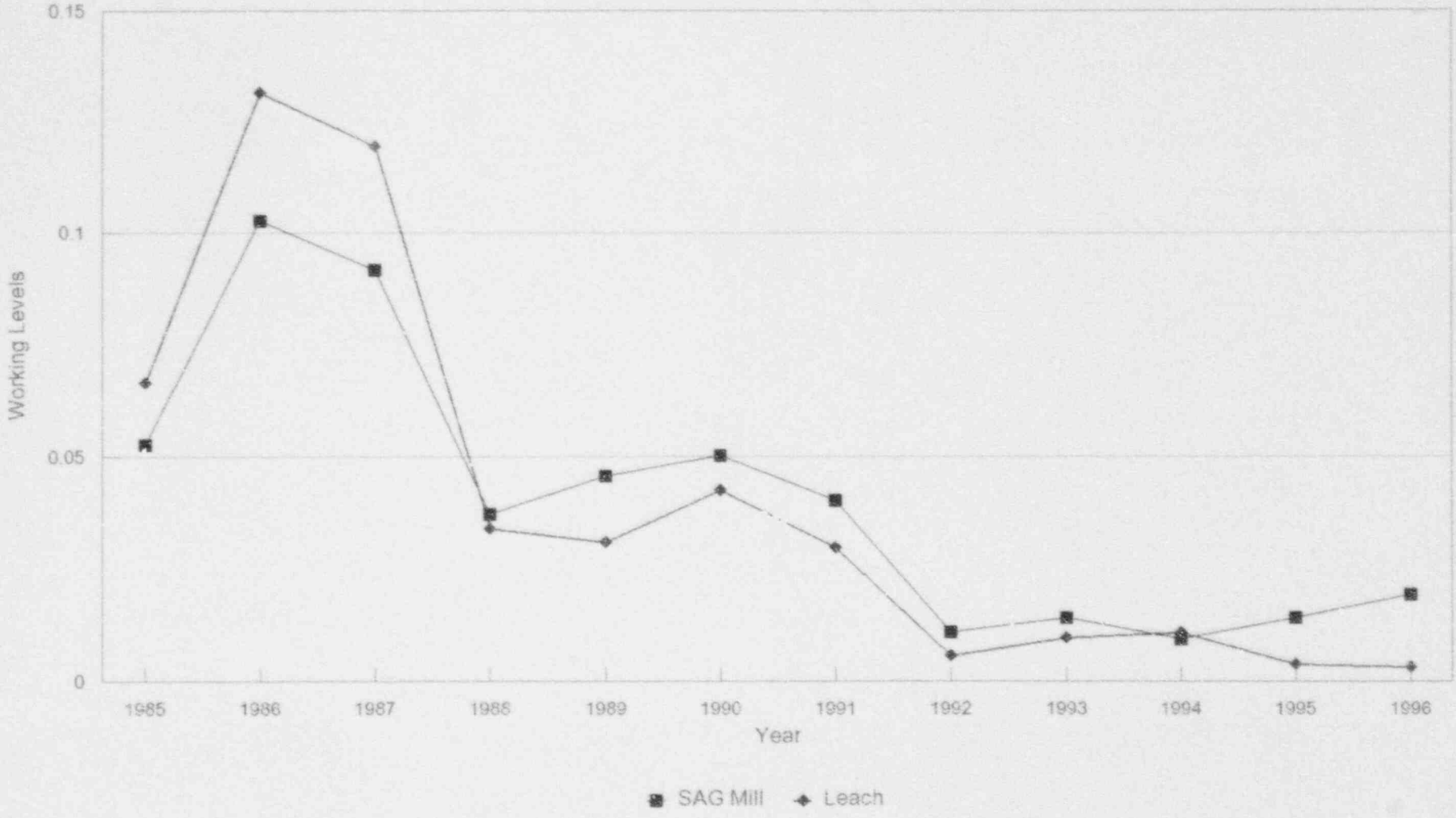
Monthly Radon Daughter Concentrations



Graph 16

ENERGY FUELS NUCLEAR, INC.

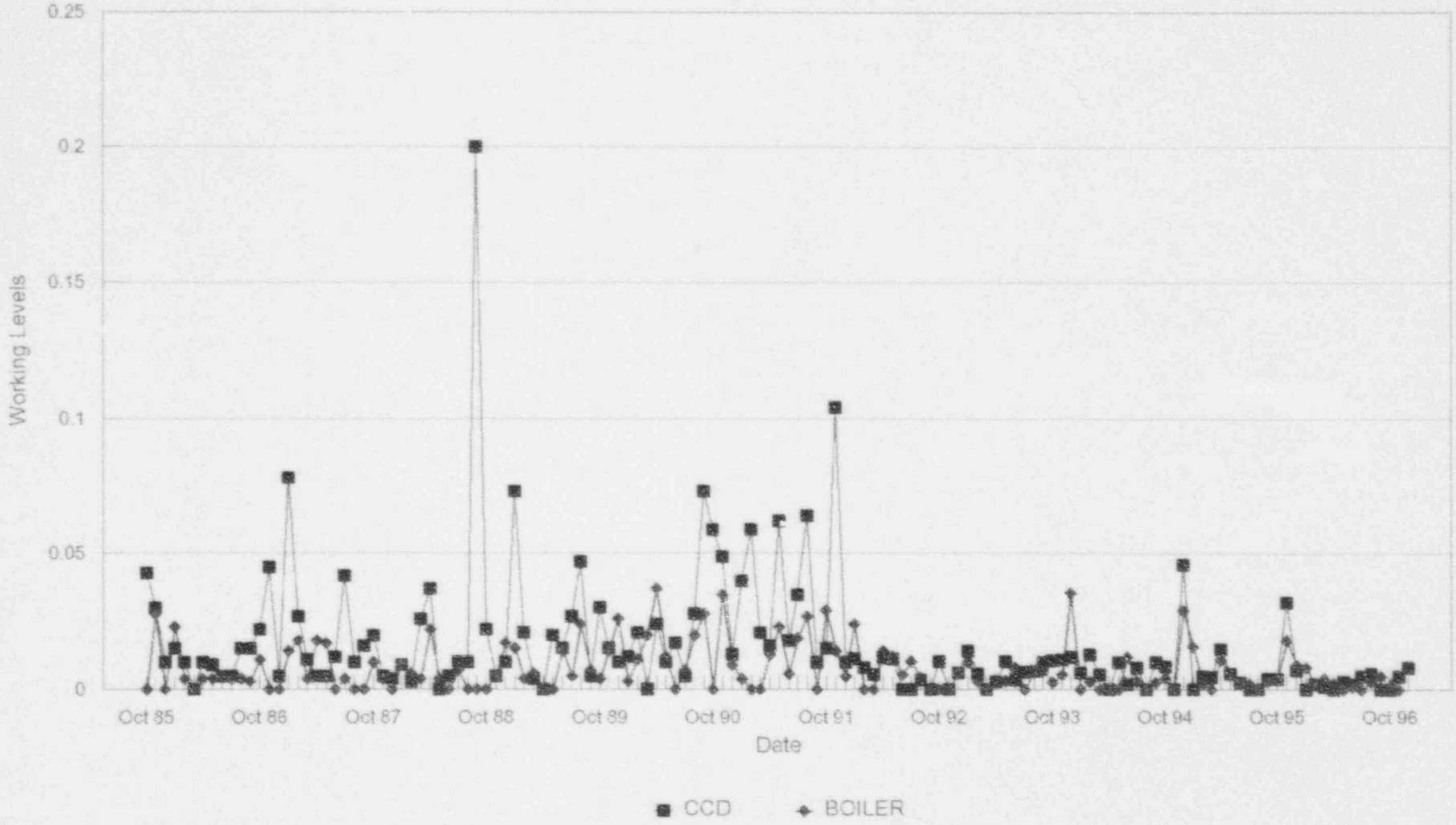
Average Yearly Radon Daughter Concentrations



Graph 17

ENERGY FUELS NUCLEAR, INC.

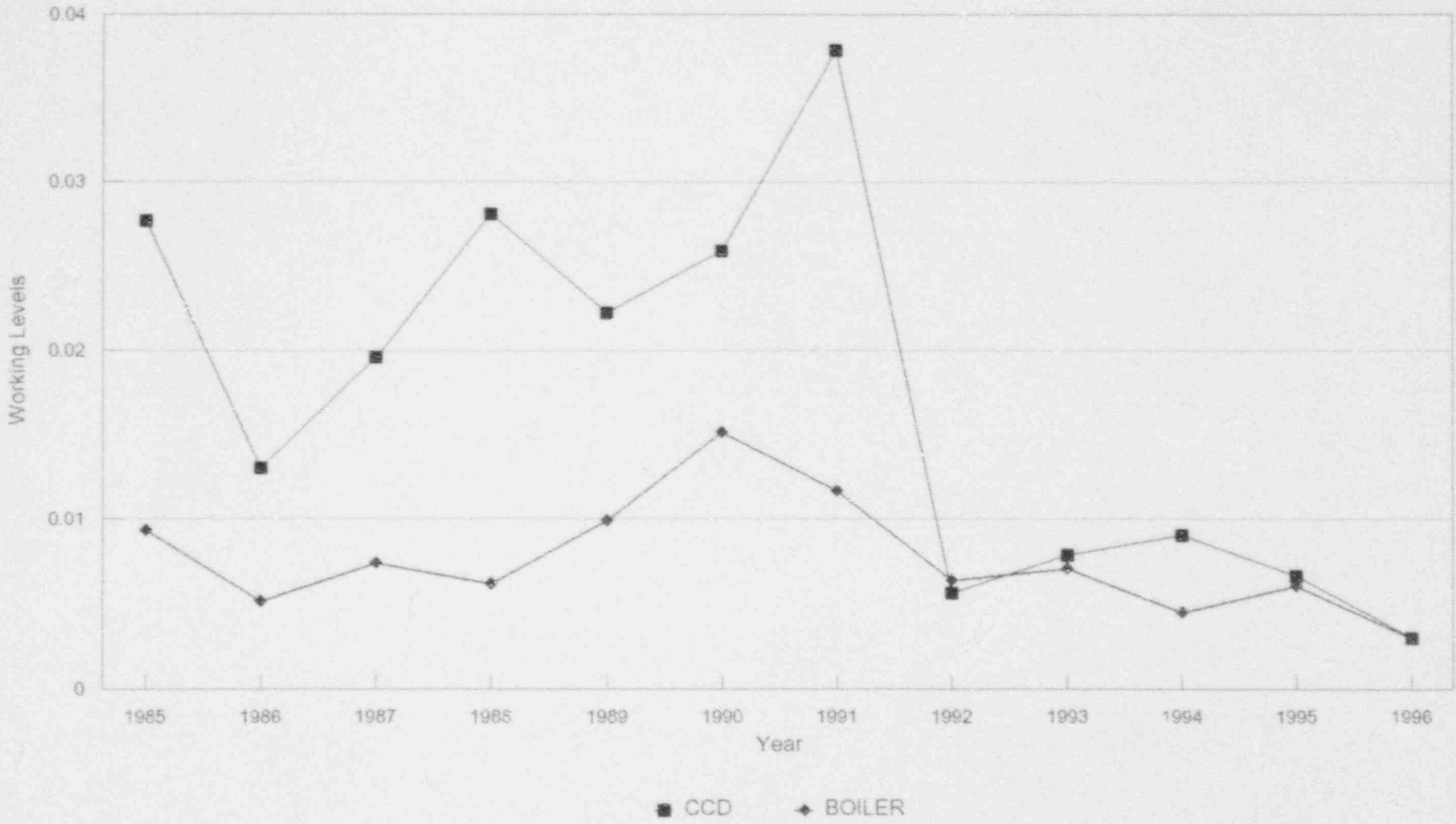
Monthly Radon Daughter Concentrations



Graph 18

ENERGY FUELS NUCLEAR, INC.

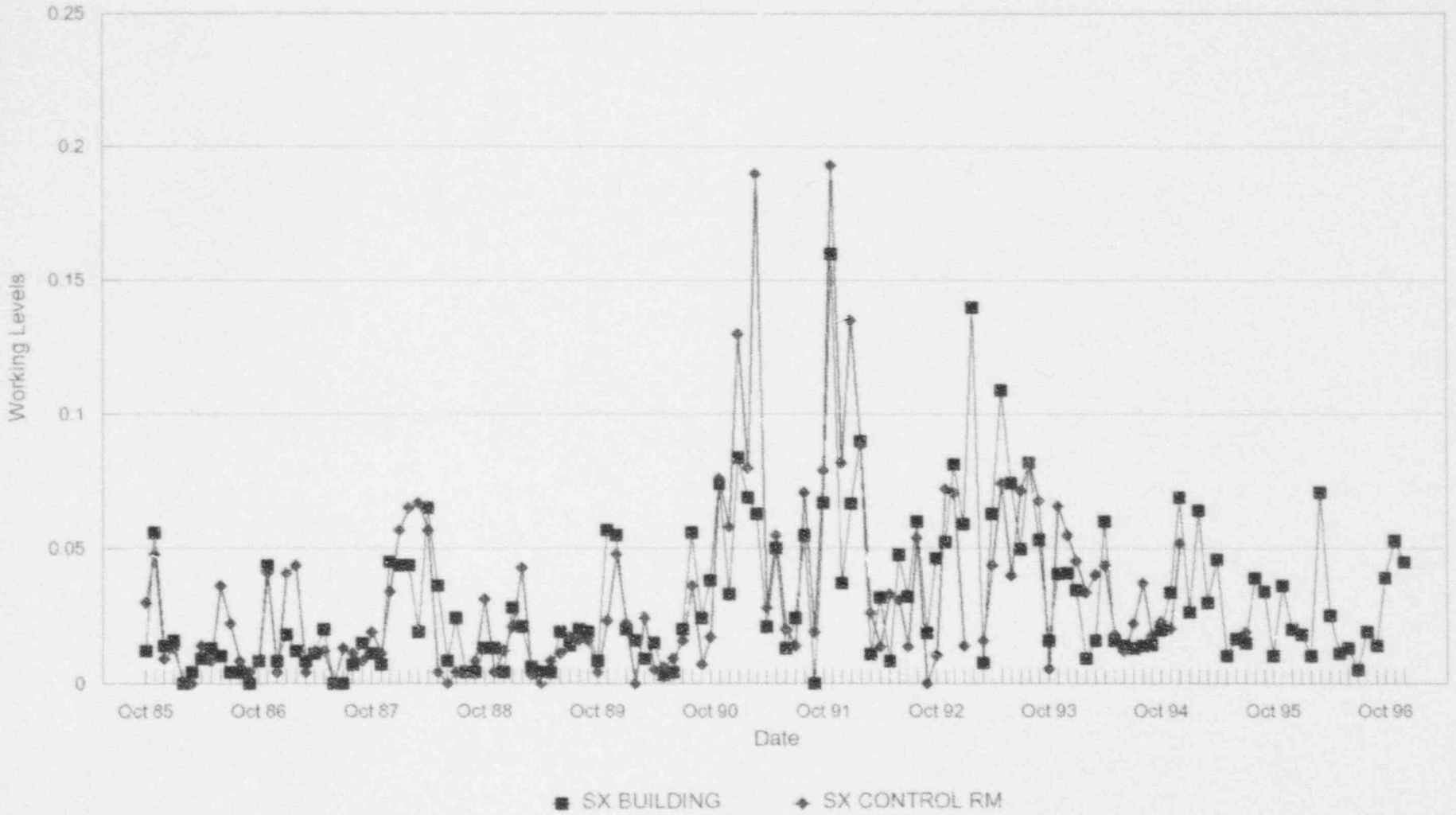
Average Yearly Radon Daughter Concentrations



Graph 19

ENERGY FUELS NUCLEAR, INC.

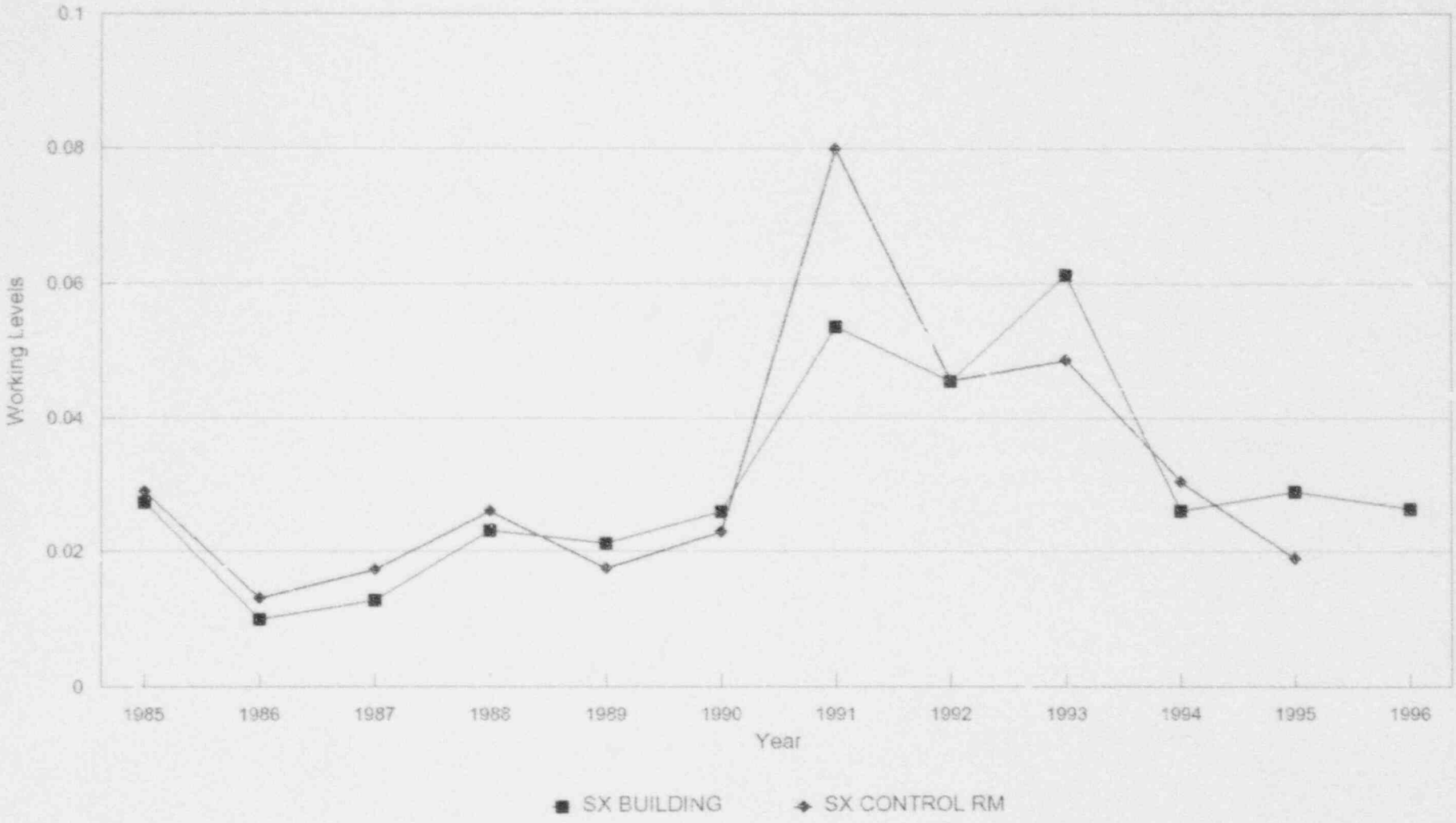
Monthly Radon Daughter Concentrations



Graph 20

ENERGY FUELS NUCLEAR, INC.

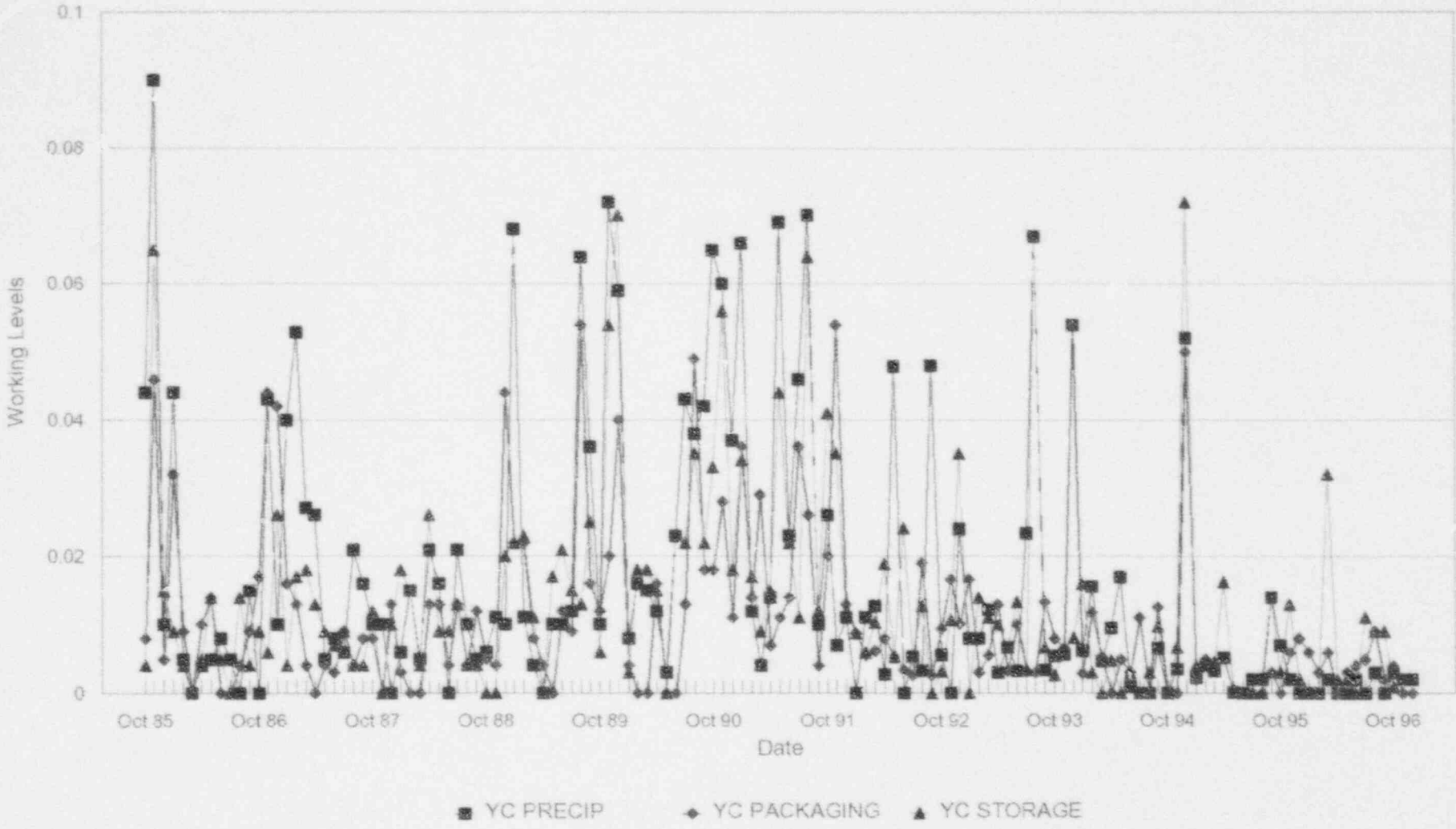
Average Yearly Radon Daughter Concentrations



Graph 21

ENERGY FUELS NUCLEAR, INC.

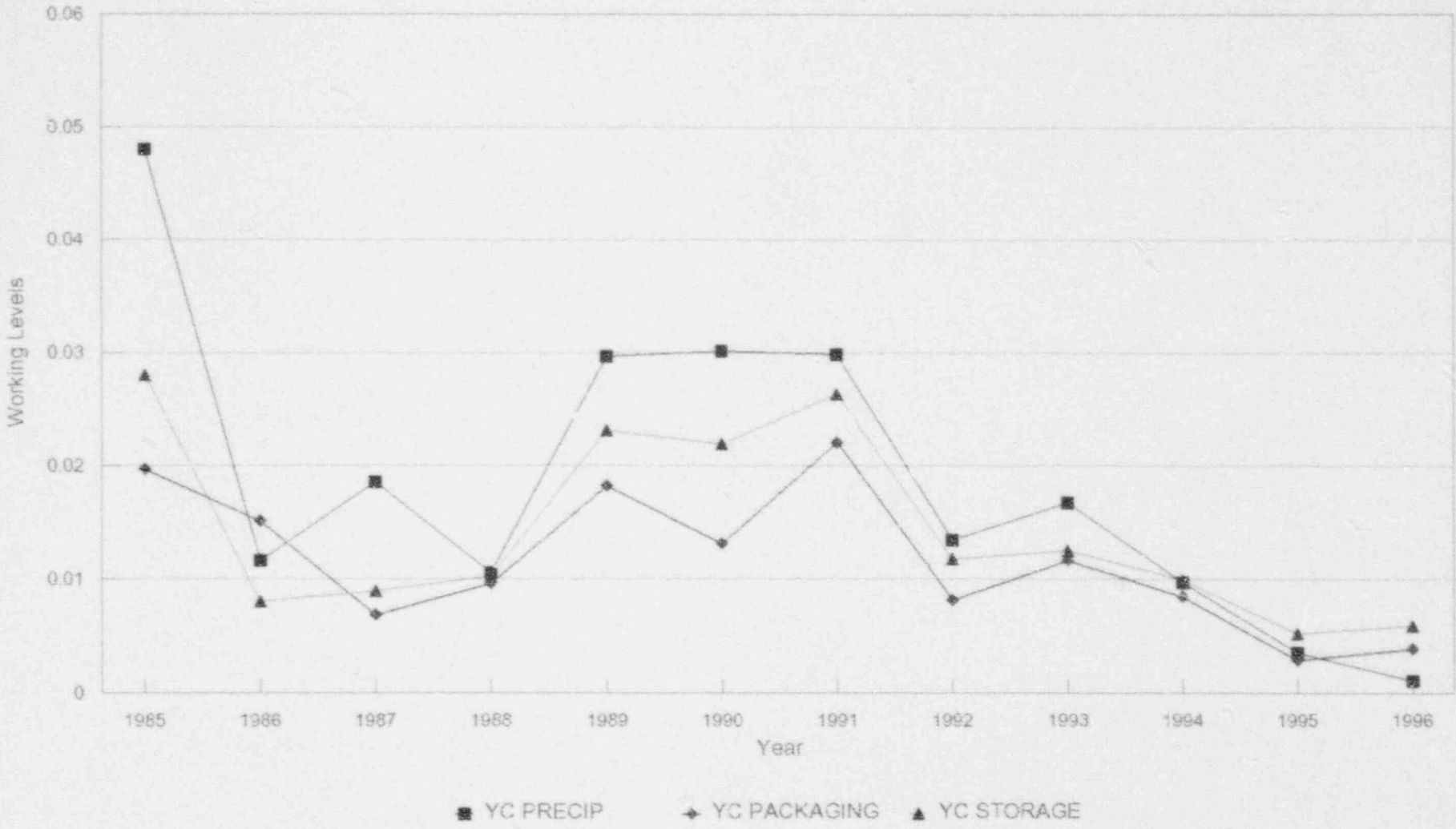
Monthly Radon Daughter Concentrations



Graph 22

ENERGY FUELS NUCLEAR, INC.

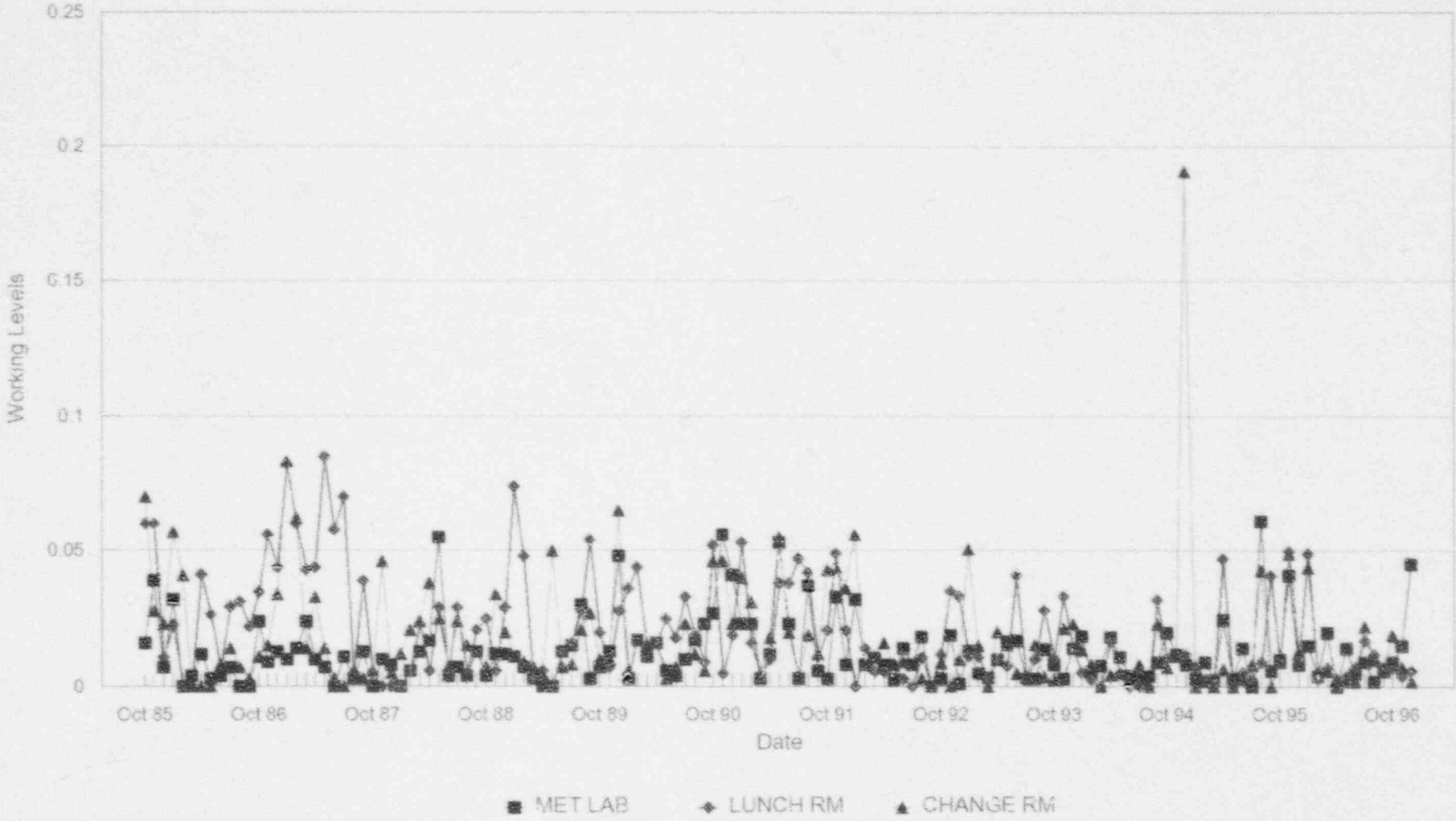
Average Yearly Radon Daughter Concentrations



Graph 23

ENERGY FUELS NUCLEAR, INC.

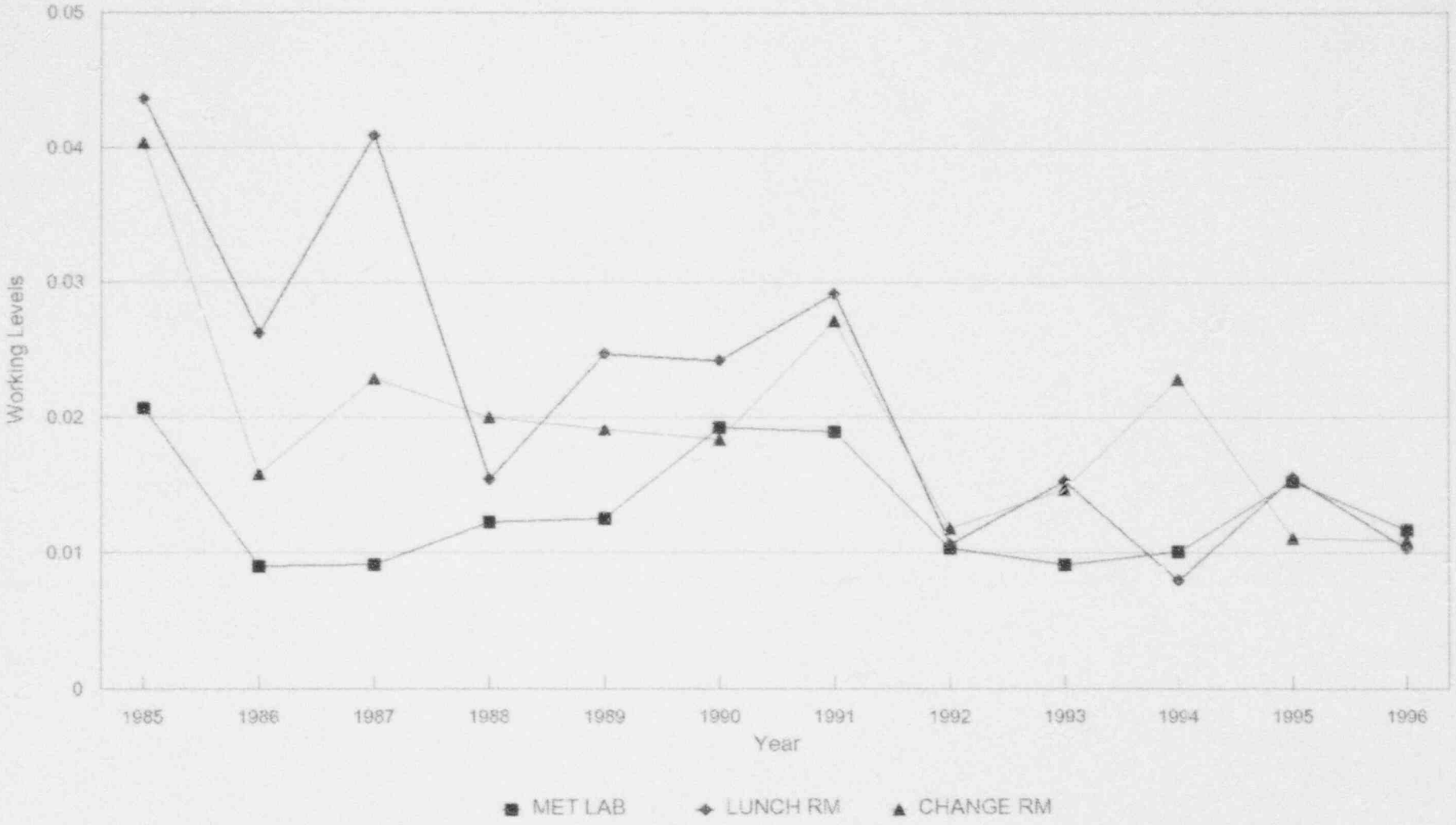
Monthly Radon Daughter Concentrations



Graph 24

ENERGY FUELS NUCLEAR, INC.

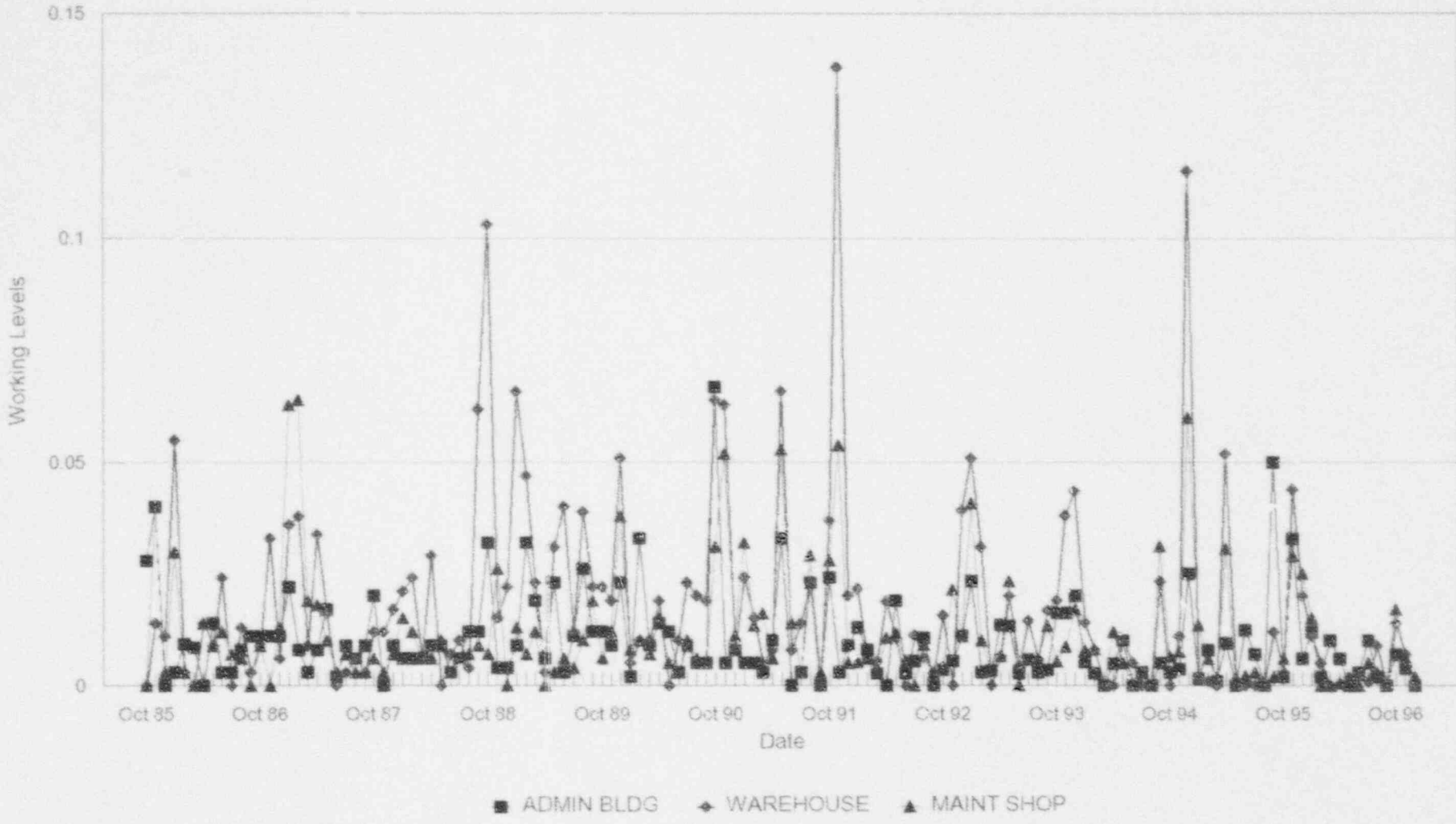
Average Yearly Radon Daughter Concentrations



Graph 25

ENERGY FUELS NUCLEAR, INC.

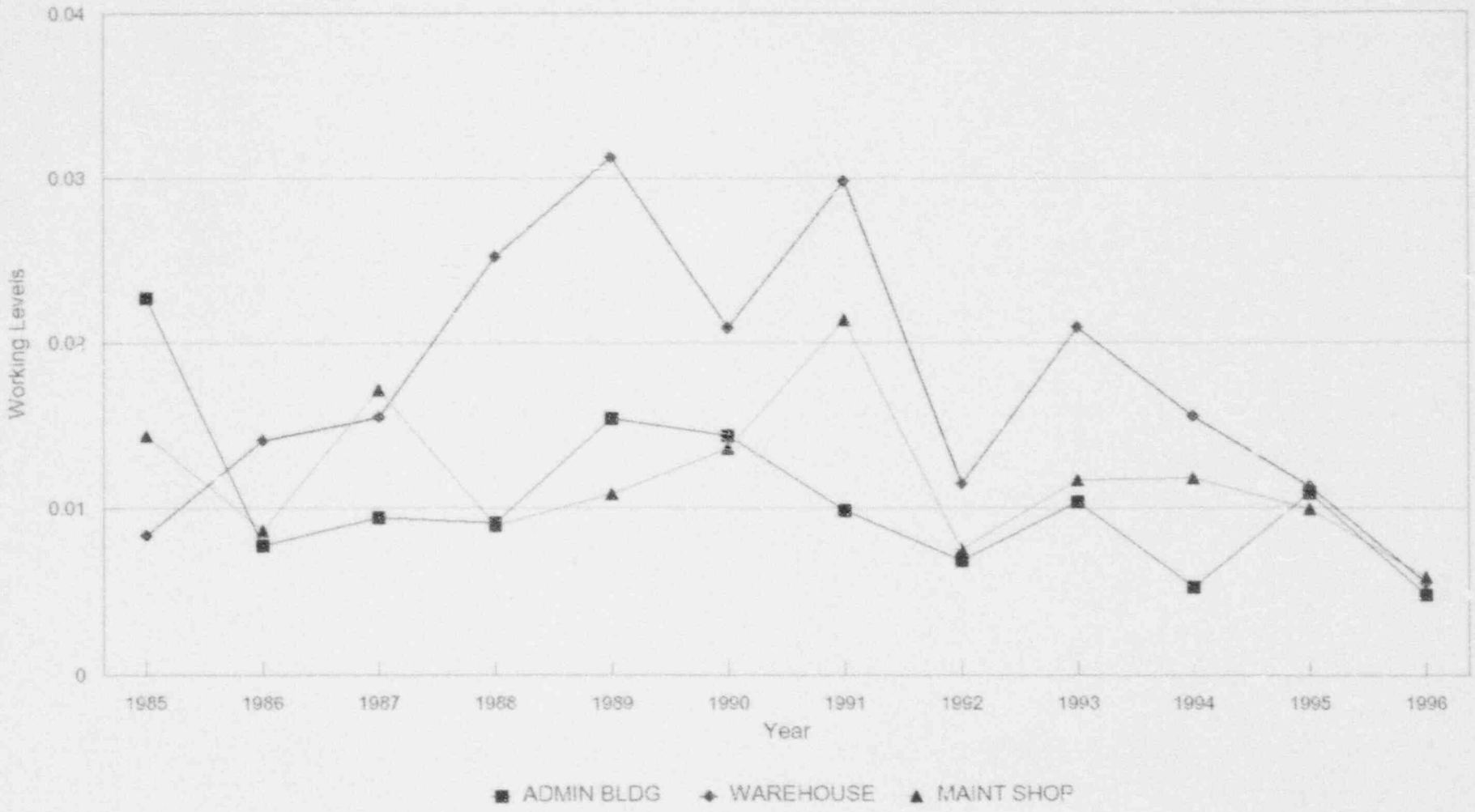
Monthly Radon Daughter Concentrations



Graph 26

ENERGY FUELS NUCLEAR, INC.

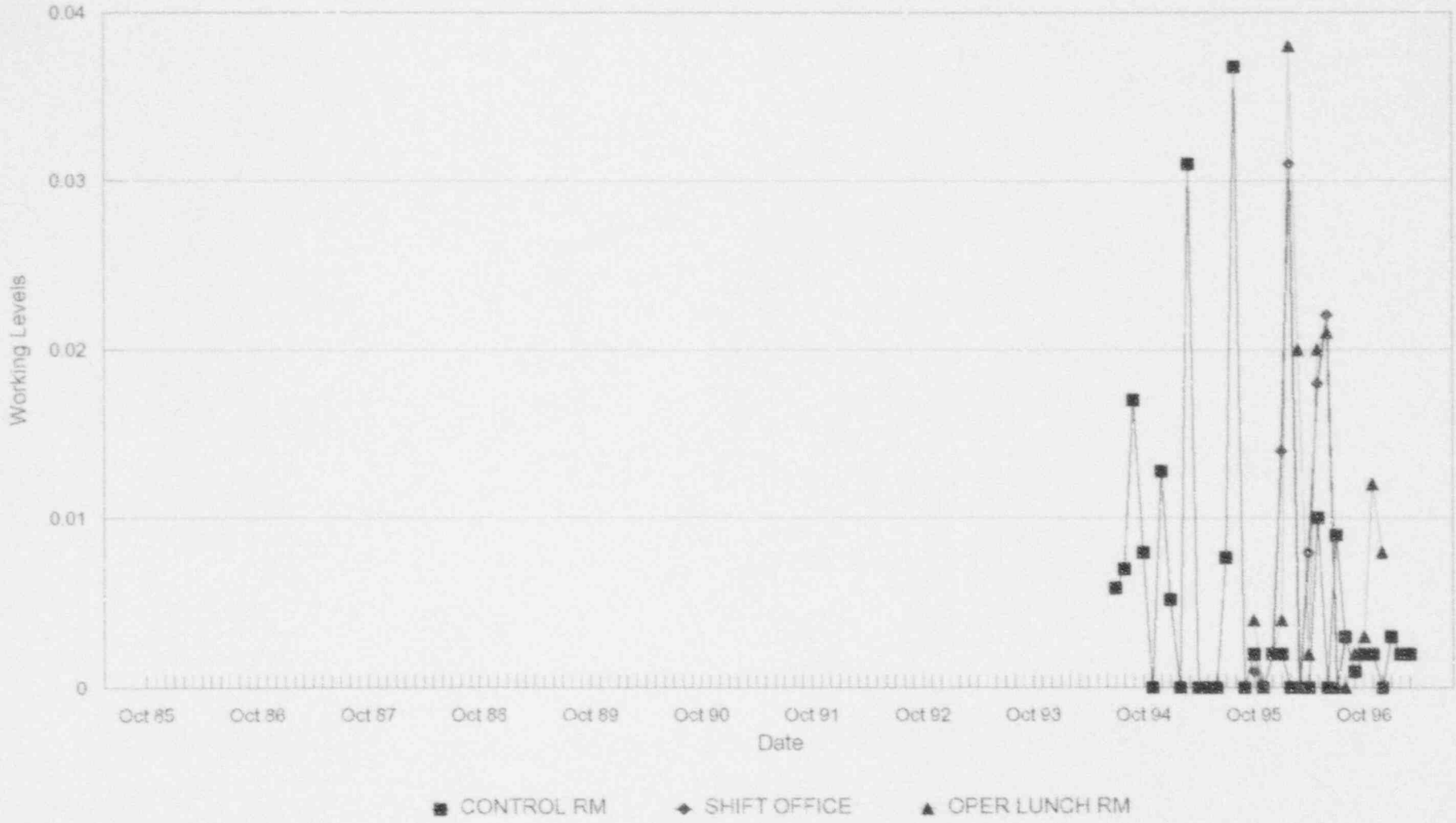
Average Yearly Radon Daughter Concentrations



Graph 27

ENERGY FUELS NUCLEAR, INC.

Monthly Radon Daughter Concentrations



Graph 28

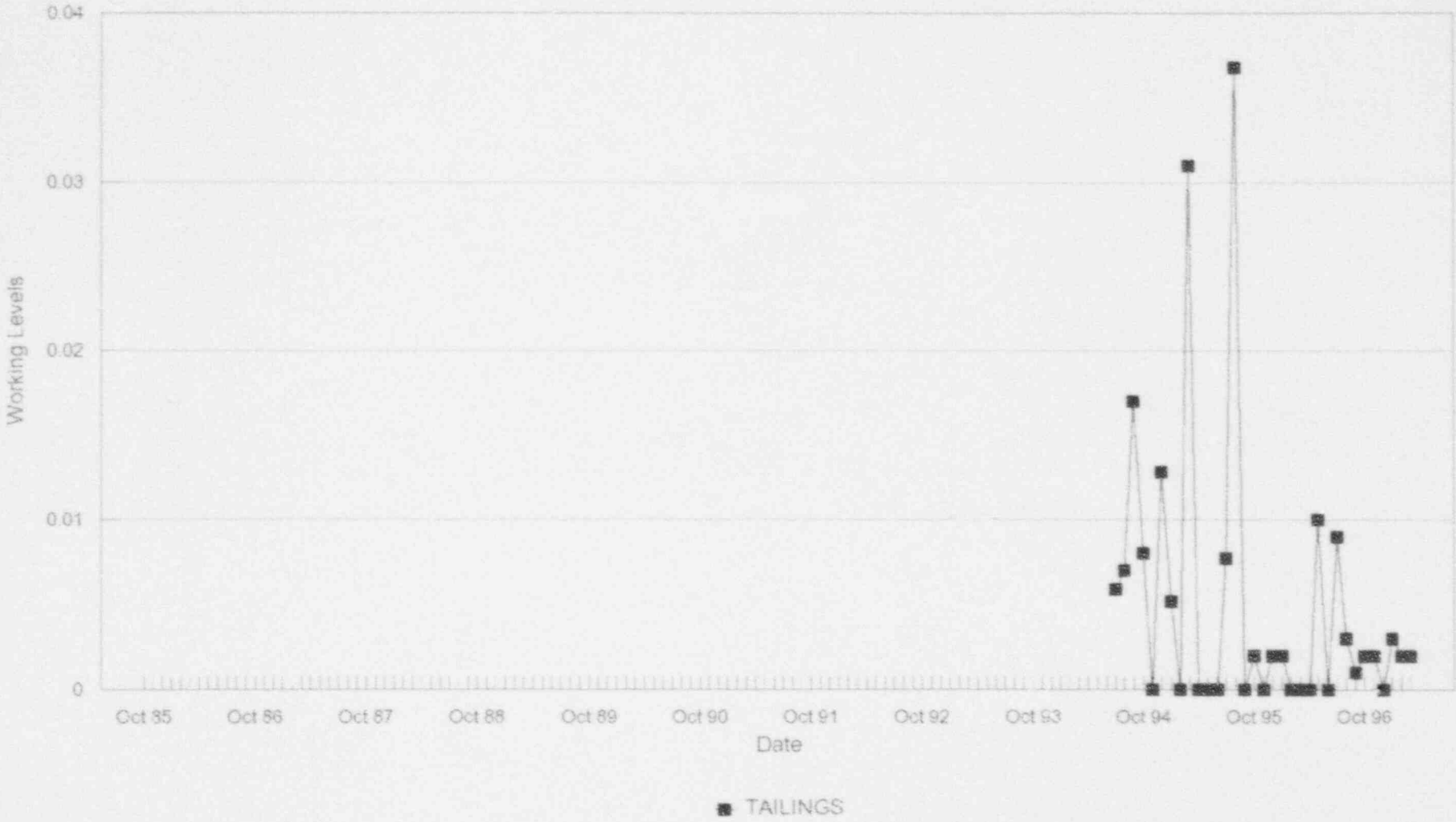
ENERGY FUELS NUCLEAR, INC.

Average Yearly Radon Daughter Concentrations

Graph 29

ENERGY FUELS NUCLEAR, INC.

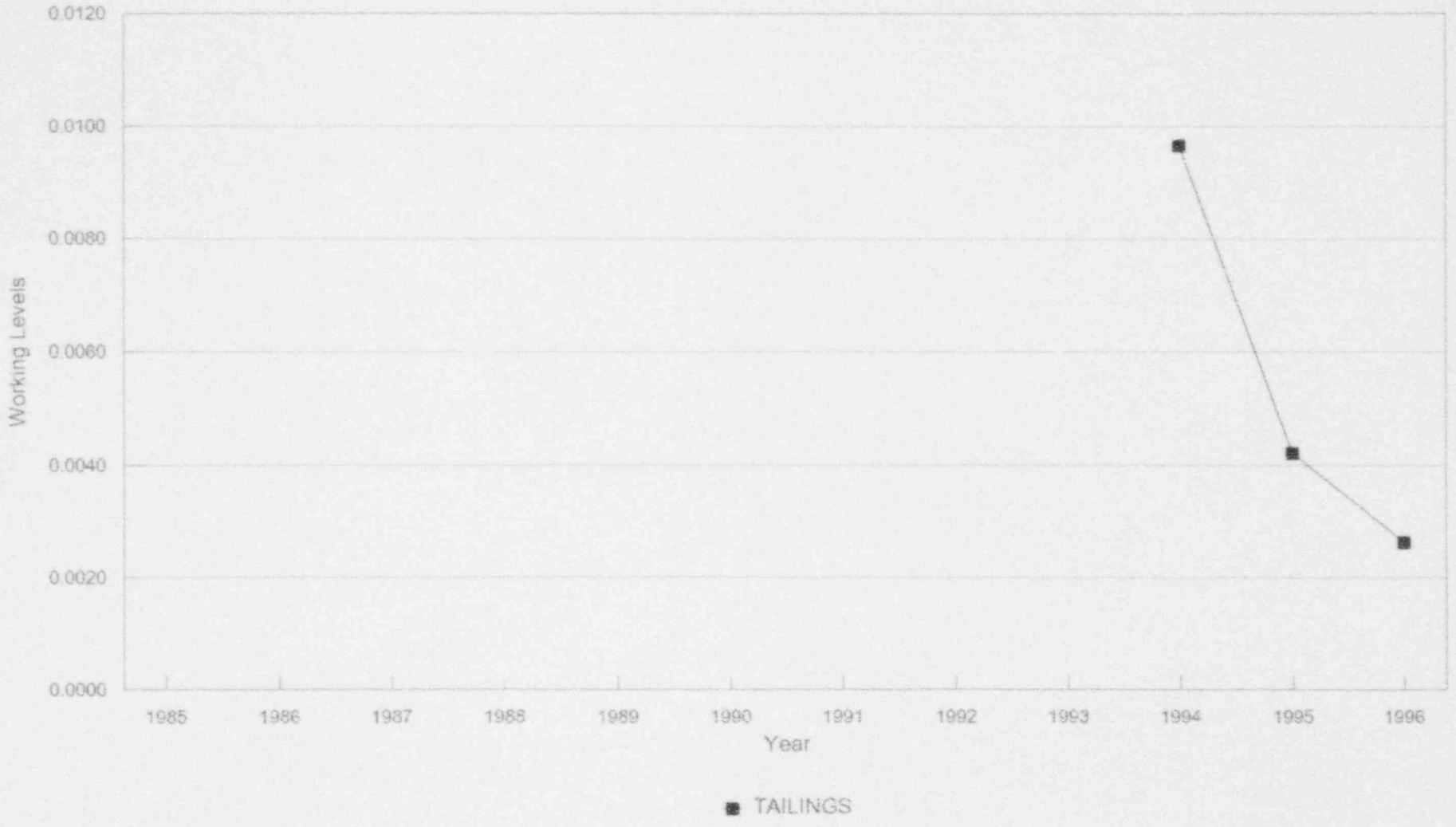
Monthly Radon Daughter Concentrations



Graph 30

ENERGY FUELS NUCLEAR, INC.

Average Yearly Radon Daughter Concentrations



Graph 31

Gamma

Radiation

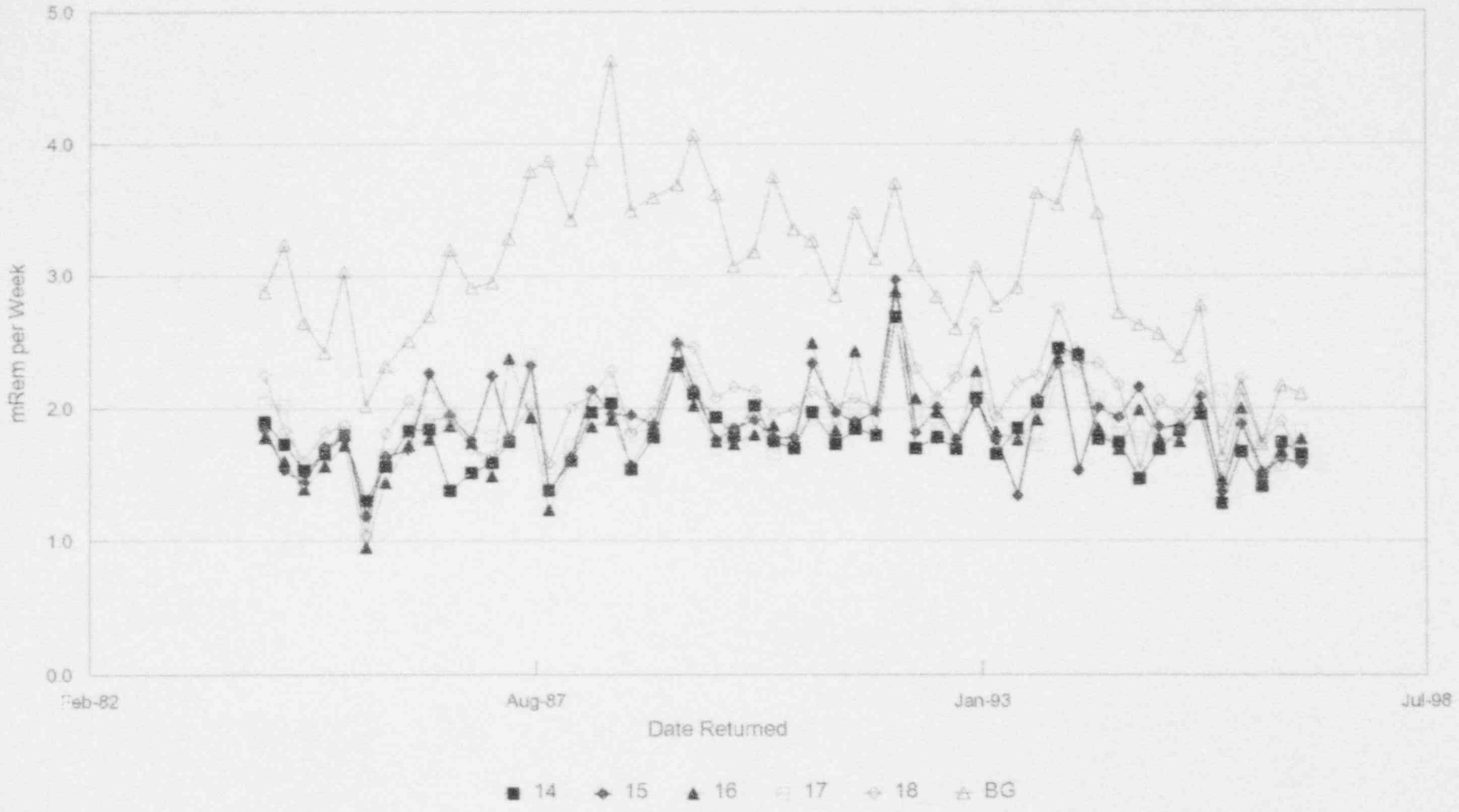
AREA TLD BADGE LOCATIONS

(GAMMA BALLS)

BADGE NO.	LOCATION DESCRIPTION
14	#1 High Volume Station.
15	#2 High Volume Station.
16	#3 High Volume Station.
17	#4 High Volume Station.
18	#5 High Volume Station.
19	SAG Mill. Outside control on electrical cable.
20	Leach tank area. Leach operator's desk.
21	Washing circuit CCD thickners. Transformer by work station
22	SX north. U308 regulator switch.
23	SX south. #10 "I" beam on electrical cable.
24	Y. C. precip. Over first wet storage tank.
25	Y. C. packaging. On controls outside pkg room
26	Y. C. storage. On "I" beam on south wall.
27	Sample prep room. East wall cone crusher switch
28	Mill lunch room. Clipboard hanging area
29	Change & Lunch room. On extinguisher SW door
30	Ore storage. Light pole on west end of "T" bin.
31	Dumper Station
32	OBS. Secondary station south west door - vent pipe
33	OBS. Sample prep room east window.
34	OBS. Vezin control panel access door.
35	Administrative building. Bulletin board.
36	#2 High Volume Station Duplicate
37	Vanadium control room south wall
38	North of Large belt filter on beam along north wall
39	Black flake packaging control
40	Vanadium precip. hung with fire extinguisher

WHITE MESA MILL

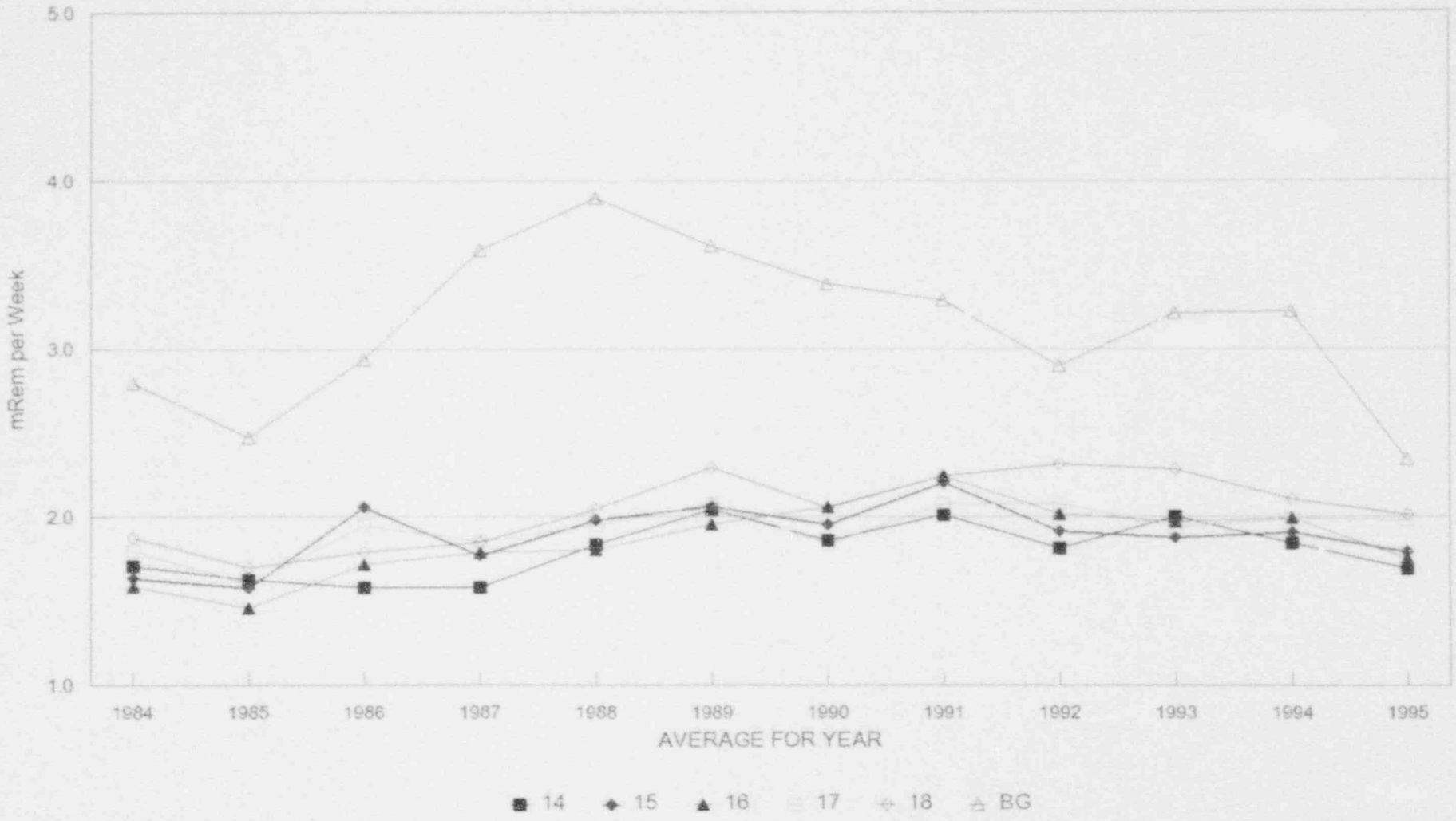
Ambient Gamma



Graph 32

WHITE MESA MILL

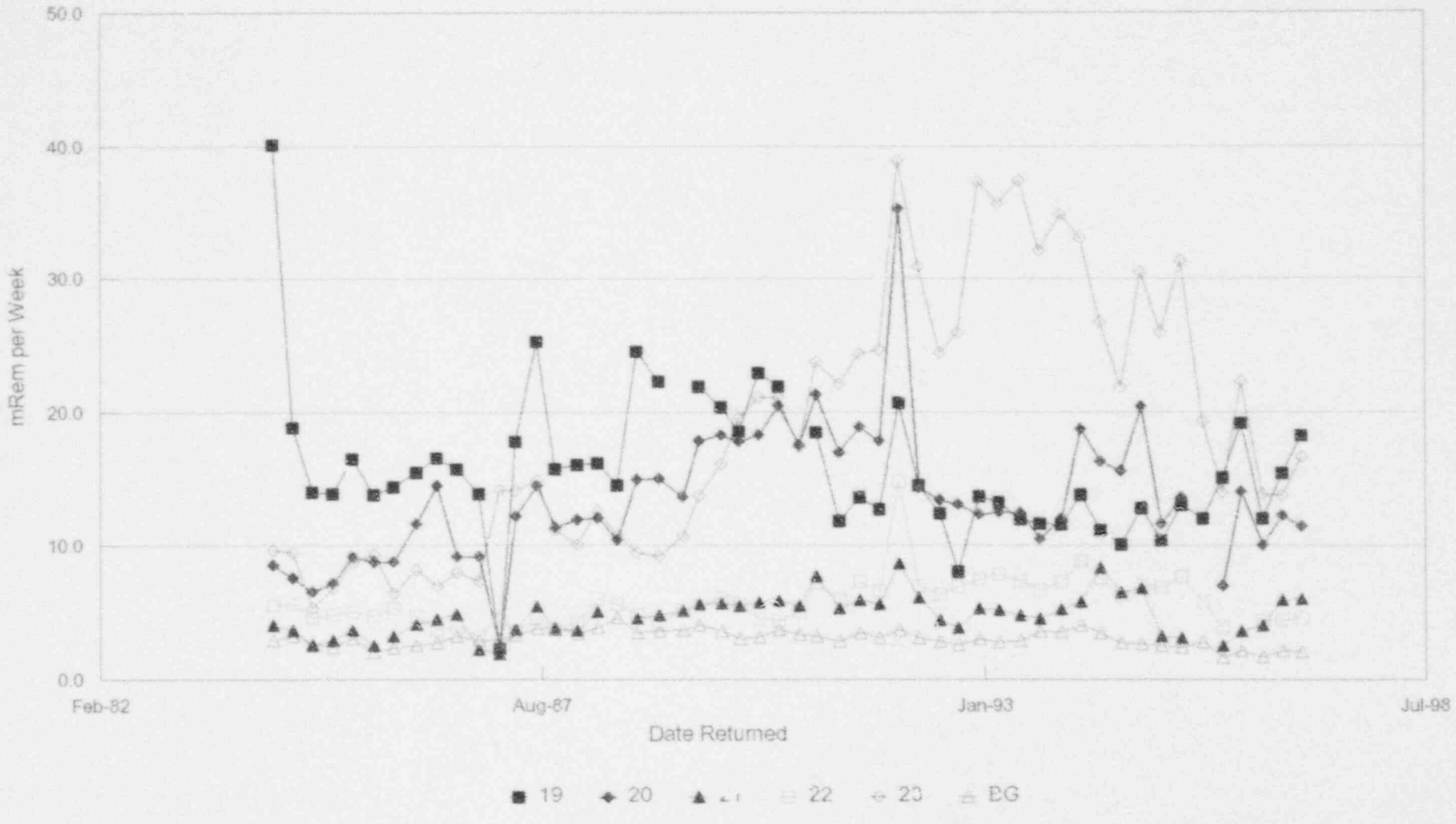
Average Ambient Gamma



Graph 33

WHITE MESA MILL

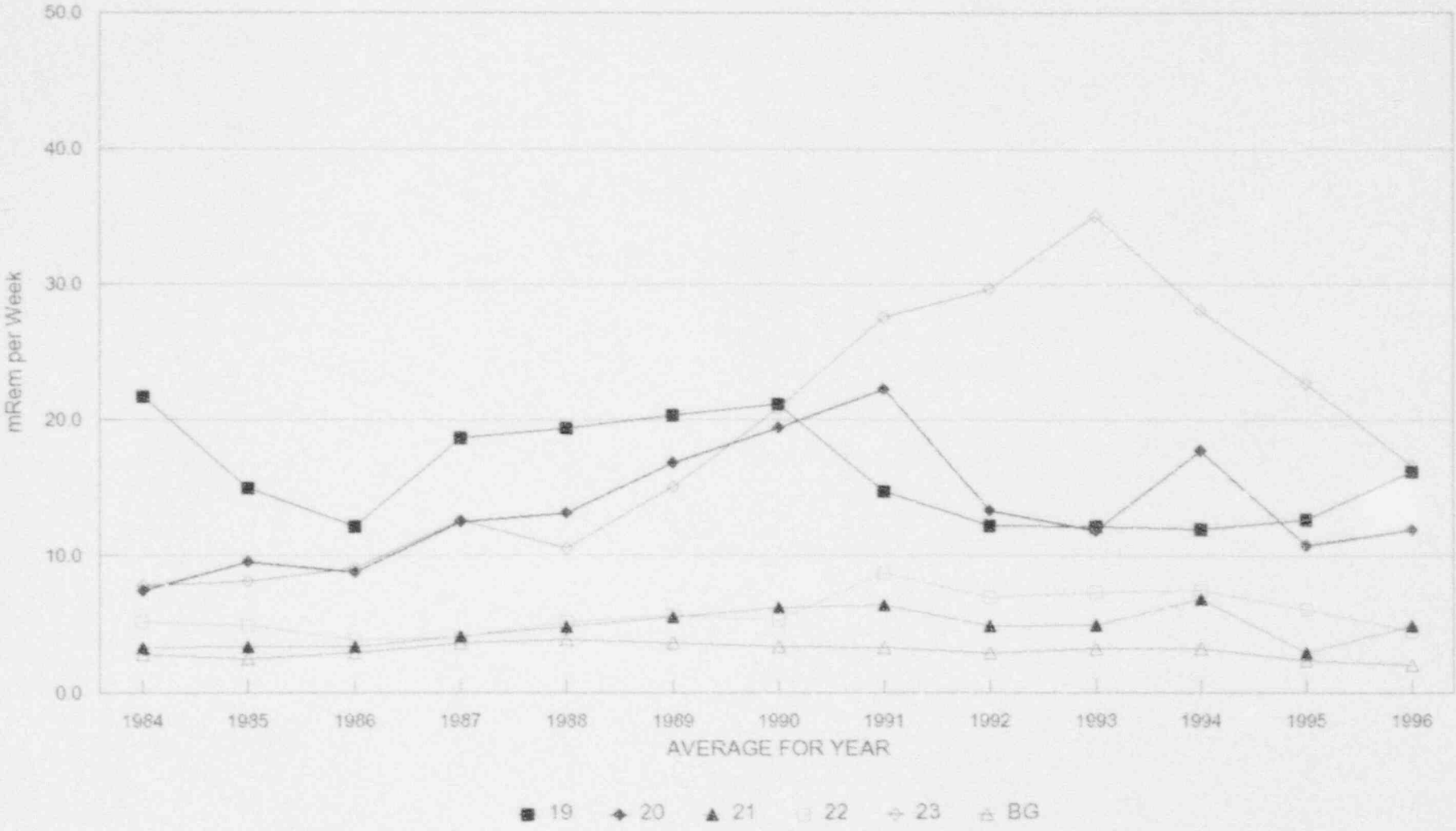
Ambient Gamma



Graph 34

WHITE MESA MILL

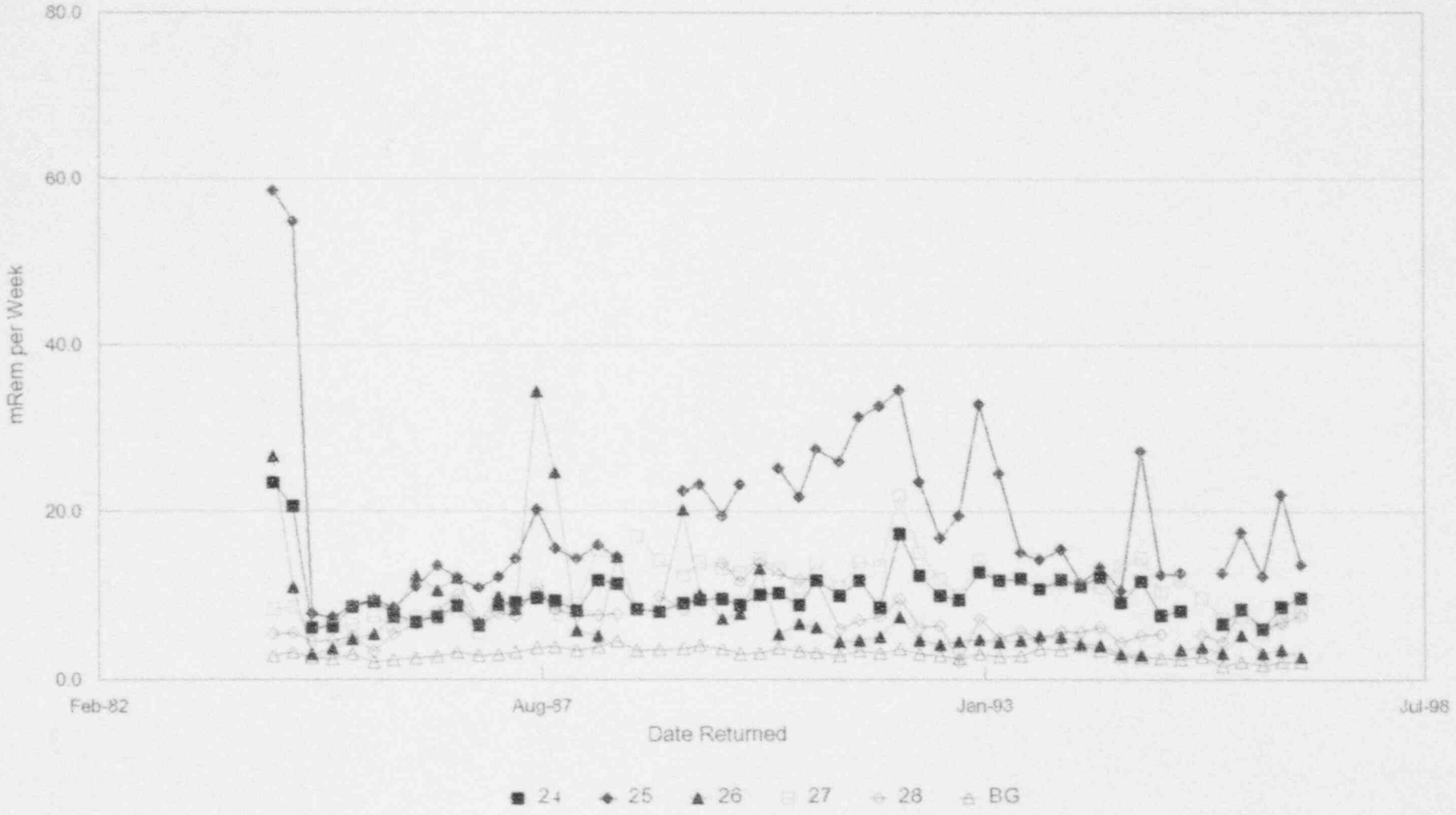
Average Ambient Gamma



Graph 35

WHITE MESA MILL

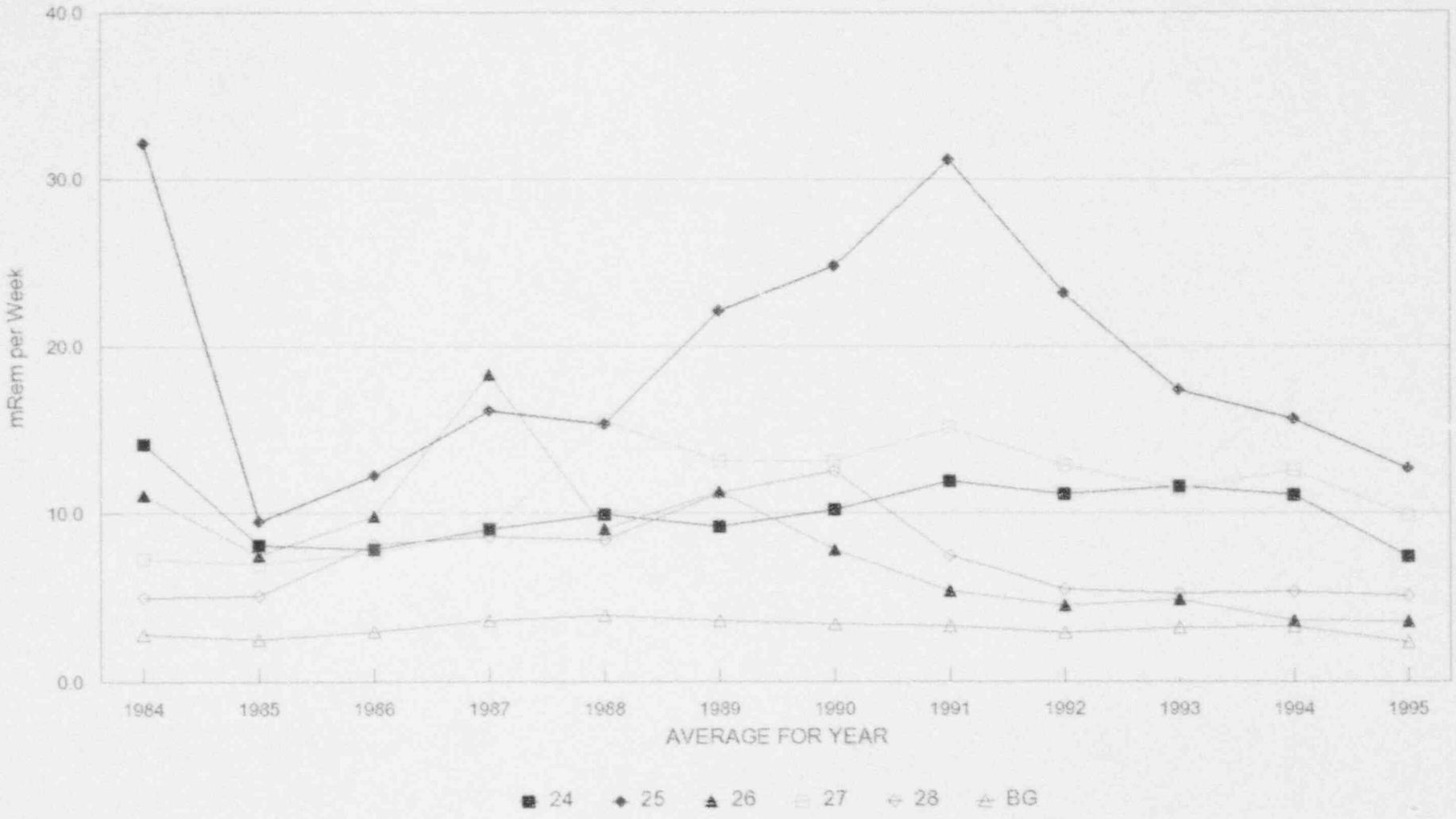
Ambient Gamma



Graph 36

WHITE MESA MILL

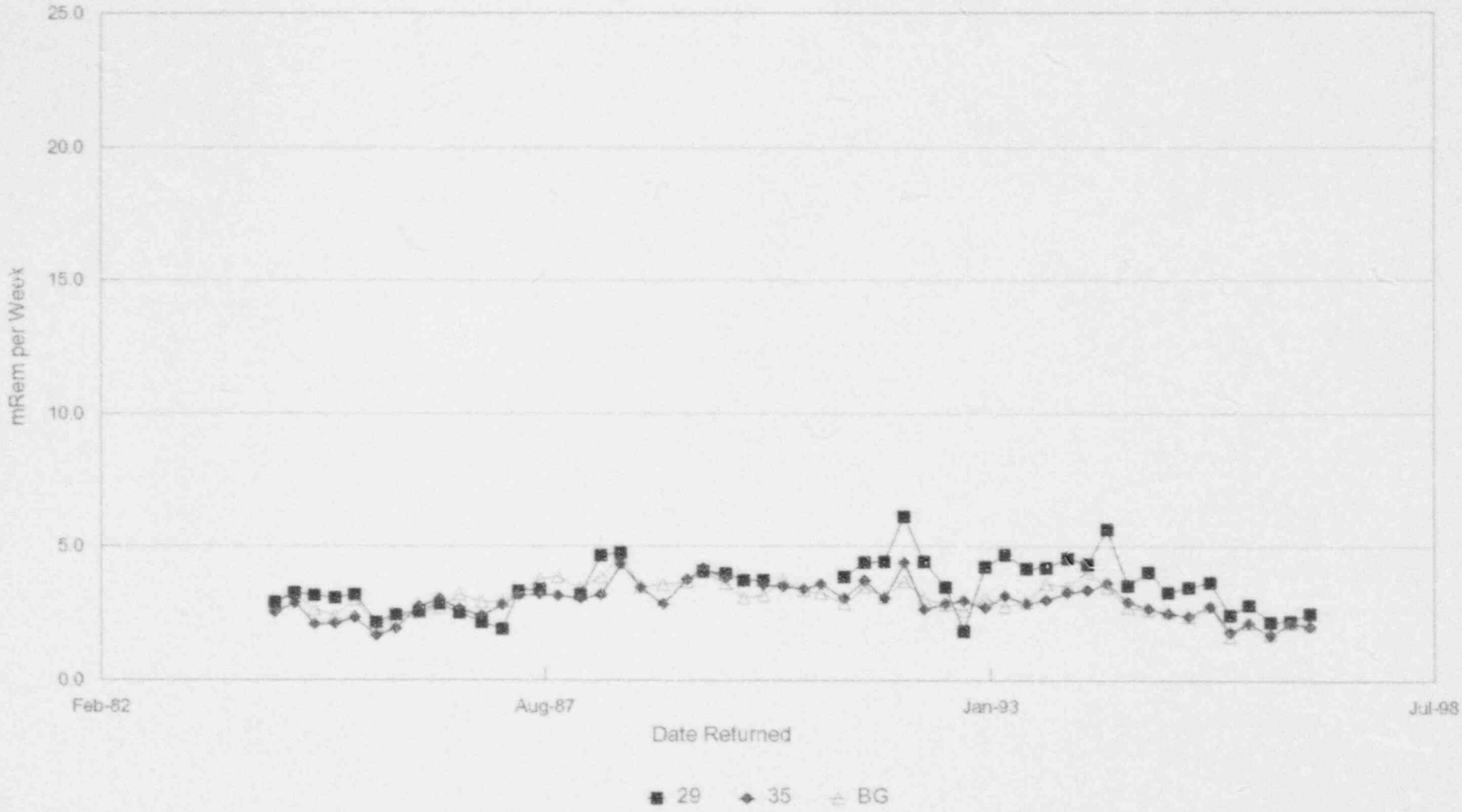
Average Ambient Gamma



Graph 37

WHITE MESA MILL

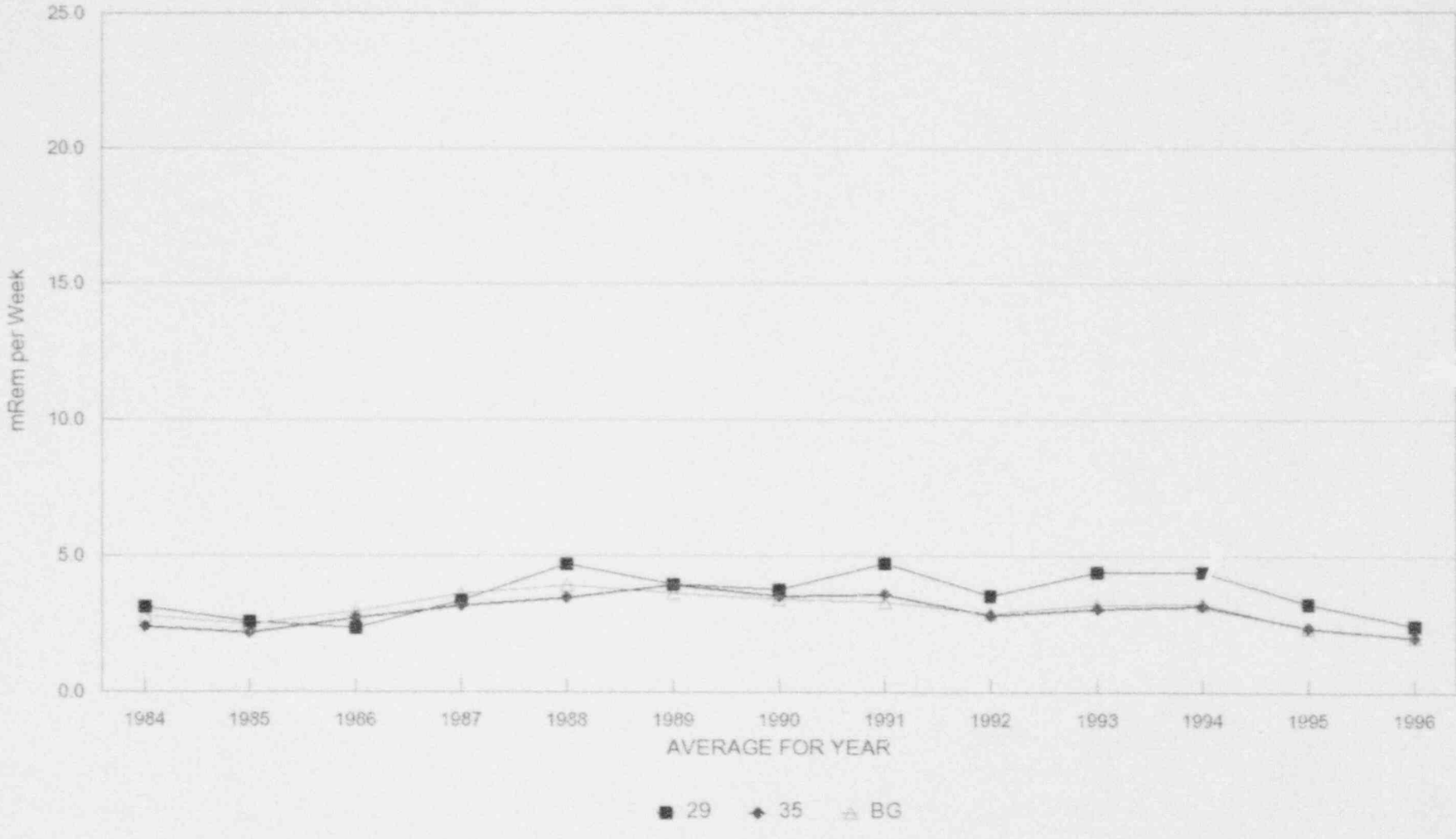
Ambient Gamma



Graph 38

WHITE MESA MILL

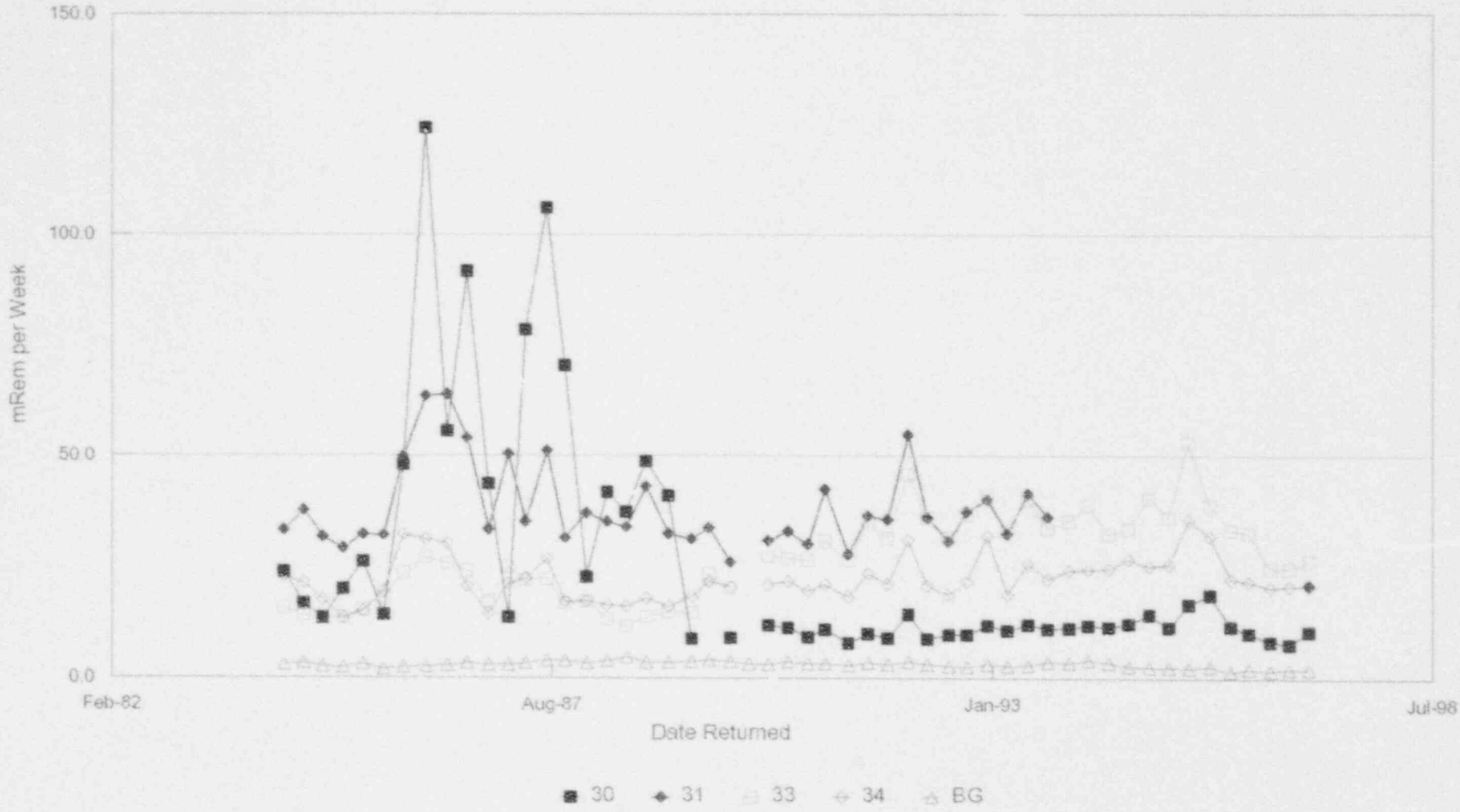
Average Ambient Gamma



Graph 39

WHITE MESA MILL

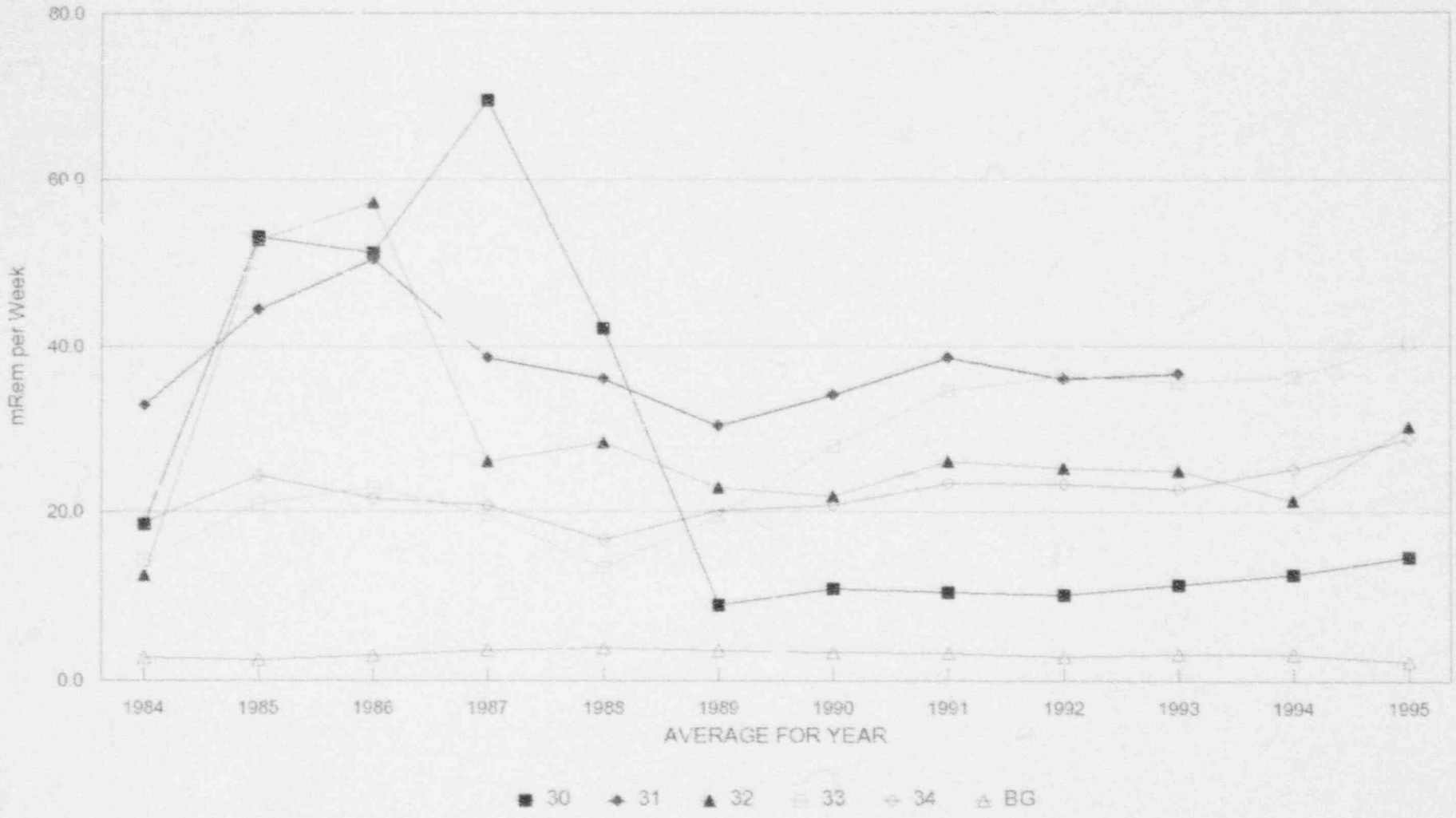
Ambient Gamma



Graph 40

WHITE MESA MILL

Average Ambient Gamma



Graph 41

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Albuquerque, NM 87109
(505) [illegible]-9931 • FAX (505) 761-5410

ENERGY FUELS NUCLEAR 04389
S.L. SCHIERMAN
6425 SOUTH HWY 191
BLANDING UT 84511

Our records show the following number of badges in the indicated Deep exposure ranges for the period from January 1, 1996 to December 31, 1996.

BADGES	EXPOSURE RANGE
31	LESS THAN .010 REM
55	0.010 TO 0.099 REM
9	0.100 TO 0.249 REM
9	0.250 TO 0.499 REM
0	0.500 TO 0.749 REM
0	0.750 TO 0.999 REM
0	1.000 TO 1.999 REM
0	2.000 TO 2.999 REM
0	3.000 TO 3.999 REM
0	4.000 TO 4.999 REM
0	5.000 TO 5.999 REM
0	6.000 TO 6.999 REM
0	7.000 TO 7.999 REM
0	8.000 TO 8.999 REM
0	9.000 TO 9.999 REM
0	10.000 TO 10.999 REM
0	11.000 TO 11.999 REM
0	12.000 OR MORE REM

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CURRENT TLD OCCUPATIONAL RADIATION EXPOSURE REPORT - SUMMARY

APPROVED FOR USE IN LIEU OF NRC FORM 5

CUSTOMER NO. 04389

DATE 12/31/96

DOSIMETRY SERVICES

BADGE NO. / CAL YEAR	NAME	SOCIAL SECURITY NO. / BIRTHDATE	AGE (YRS)	1ST CAL QTR. ACCUMULATED DOSE (mrem) DEEP	LENS	SHALLOW	EXTREMITY	3RD CAL QTR. ACCUMULATED DOSE (mrem) DEEP	LENS	SHALLOW	EXTREMITY	LIFETIME ACCUMULATED DOSE (rem) DEEP	LENS	SHALLOW	EXTR
				2ND CAL QTR. ACCUMULATED DOSE (mrem)				4TH CAL QTR. ACCUMULATED DOSE (mrem)				CAL YR. ACCUMULATED DOSE (mrem)			
				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTR
00007	M SPILLMAN	521900035		69	86	117		59	59	59		2.729			
1996		07/24/55	41	95	95	95		126	126	126		349	366	397	
00020	R BRADFORD	529707488		79	91	113		67	73	84		1.996			
1996		07/20/48	48	119	119	119		11	13	16		276	296	332	
00025	S CHRISTENSEN	560949976		57	72	101		21	39	71		3.281			
1996		12/01/53	43	103	103	103		86	88	92		267	302	367	
00031	W BENNETT	585566484		139	139	139		62	68	79		3.299			
1996		09/25/54	42	110	110	110		113	118	127		424	435	455	
00033	CD LATHAM	485462688		0	0	11						0.000			
1996		10/02/38	58									0	0	11	
00080	W PALMER	529040960		0	0	0		16	19	23		0.162			
1996		12/18/57	39	10	10	10		0	0	0		26	29	33	
00088	J PALMER	528485115		0	0	14		0	0	14		0.719			
1996		09/09/36	60	12	12	12		0	0	0		12	12	40	
00133	B ARTHUR	522824893		0	36	102		0	0	0		0.868			
1996		01/23/54	42	0	12	33		0	0	0		0	48	135	
00170	K CARROLL	528501682		28	42	68		0	20	57		1.614			
1996		03/12/40	56	0	0	19		0	0	0		28	62	144	
00195	L SCHEER	303561458		54	65	85						0.471			
1996		10/06/47	49									54	65	85	
00278	SL SCHIERMAN	523989152		0	0	15						0.354			
1996		09/03/58	38									0	0	15	
00281	L BOWERS	552621807		0	0	0		0	0	0		0.939			
1996		06/21/44	52	0	0	0		0	0	0		0	0	0	
00291	J WILSON	524567606		13	20	33		17	21	28		0.716			
1996		01/24/46	50	0	10	28		0	0	17		30	51	106	
00293	R BARTLETT	505563479		0	0	0		0	0	0		0.404			
1996		05/06/45	51	0	0	0		0	0	0		0	0	0	
00294	JR BRICE	521900187		0	0	0		0	0	0		0.301			
1996		03/06/63	33	22	22	22		0	0	0		22	22	22	
00299	J STASH	528585265		41	42	44		25	34	51		0.414			
1996		06/06/43	53	38	41	46		11	17	27		115	134	168	

NVLAP

The dosimetry processor is accredited by NVLAP of the U.S. Department of Commerce as having the competence to perform specified tests in accordance with prescribed test methods and accreditation criteria.

CUSTOMER ENERGY FUELS NUCLEAR
ATTENTION S.L. SCHIERMAN
ADDRESS 5425 SOUTH HWY 191
CITY BLANDING UT 84511

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(505) 345-9931

APPROVED FOR USE IN LIEU OF NRC FORM 5

CUSTOMER NO. 04389

DATE 12/31/96

DOSIMETRY SERVICES

BADGE NO. / CAL YEAR	NAME / NAME	SOCIAL SECURITY NO. / BIRTHDATE	AGE (YRS)	1ST CAL QTR. ACCUMULATED DOSE (mrem) / 2ND CAL QTR. ACCUMULATED DOSE (mrem)				3RD CAL QTR. ACCUMULATED DOSE (mrem) / 4TH CAL QTR. ACCUMULATED DOSE (mrem)				LIFETIME ACCUMULATED DOSE (rem) / CAL YR. ACCUMULATED DOSE (mrem)			
				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTR
00300	H SAMPSON	585747551		35	48	70		26	34	49		0.123			
1996		04/15/55	41	27	27	27						88	109	146	
J0309	R MARTIN	524402587		48	50	55		54	61	74		0.240			
1996		04/22/35	61	59	59	59		50	62	82		211	232	270	
00310	T PRICE	526809197		0	0	0		11	24	46		0.050			
1996		01/02/51	45	11	11	11		0	0	0		22	35	57	
00320	SR CLARK	521942543		0	0	0		0	0	0		0.253			
1996		07/26/55	41	0	0	0		0	0	0		0	0	0	
00327	W HANCOCK	522946517		0	22	62		0	0	11		0.032			
1996		09/17/59	37	0	0	0		0	10	28		0	32	101	
00339	A PELT	521929730		40	58	91		20	47	97		0.108			
1996		04/15/58	38	20	26	38						80	131	226	
00350	K DURETTE	524802254		40	51	70						0.761			
1996		10/06/53	43	145	173	222						185	224	292	
00365	G HOLYOAK	529380072		65	76	97		0	15	24		2.063			
1996		06/01/38	58	81	83	86		124	124	124		270	298	331	
00381	D. BURT	524802311		58	73	101						0.250			
1996		05/30/56	40									58	73	101	
00390	H JELLY	529136622		39	77	146		28	41	65		0.238			
1996		01/12/62	34	14	18	24						81	136	235	
00405	JE DAVIS	529378929		54	71	102		14	15	16		0.295			
1996		01/09/68	28	10	15	22		0	0	0		78	101	140	
00411	R BLACKHORSE	528111224		25	31	42		19	34	62		0.077			
1996		01/07/60	36									44	65	104	
00426	D SPARLING	522369596		0	0	0						0.092			
1996		04/13/30	66									0	0	0	
00428	JF RICHARDS	505349714		0	0	12						0.596			
1996		06/01/32	64									0	0	12	
00434	M BOWERS	528587530		0	0	0		0	0	0		0.010			
1996		04/12/49	47	0	0	13						0	0	13	
00436	J NIELSON	529453032		22	23	25						0.211			
1996		03/18/66	30									22	23	25	

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CURRENT TLD OCCUPATIONAL RADIATION EXPOSURE REPORT - SUMMARY

APPROVED FOR USE IN LIEU OF NRC FORM 5

CUSTOMER NO. 04389

DATE 12/31/96

DOSIMETRY SERVICES

BADGE NO. / CAL YEAR	NAME / NAME	SOCIAL SECURITY NO. / BIRTHDATE	AGE (YRS)	1ST CAL QTR. ACCUMULATED DOSE (mrem) / 2ND CAL QTR. ACCUMULATED DOSE (mrem)				3RD CAL QTR. ACCUMULATED DOSE (mrem) / 4TH CAL QTR. ACCUMULATED DOSE (mrem)				LIFETIME ACCUMULATED DOSE (rem) / CAL YR ACCUMULATED DOSE (mrem)			
				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTR
00469	S PALMER	528278181		54	65	84						0.250			
1996		08/20/63	33									54	65	84	
00461	F JOHNSON	585443943		34	34	34						0.512			
1996		10/27/35	61									34	34	34	
00471	R BENNALLY	585846430		0	0	12						0.141			
1996		09/04/59	37									0	0	12	
00474	M LAMEMAN	528277922		48	57	74		32	52	88		0.287			
1996		03/31/66	30	33	45	68						113	154	230	
00475	T LATHAM	529291663		48	144	320		31	44	69		0.320			
1996		05/01/64	32	11	15	23						90	203	412	
00478	RY ATCITTY	528729987		38	38	38		259	259	259		0.544			
1996		01/31/52	44	152	152	152						449	449	449	
00479	I VIGIL	522824824		24	36	59		12	21	37		0.301			
1996		11/21/55	41	25	28	34		29	30	31		90	115	161	
00487	E PERKINS	529111596		31	54	96						0.065			
1996		05/08/61	35									31	54	96	
00497	J ANSELL	520787662		32	37	46						0.225			
1996		01/15/65	31									32	37	46	
00508	M LANSING	529157003		121	432	1001						0.145			
1996		07/16/62	34									121	432	1001	
00509	J JONES	529175480										0.038			
1996		08/31/65	31												
00517	TL SLADE	529726688		0	0	0		0	0	0		0.046			
1996		02/16/56	40	0	0	0		0	0	0		0	0	0	
00525	W EDDIE	524882582		28	45	76		37	37	37		0.128			
1996		10/09/56	40	0	11	12						65	93	125	
00531	JP SAMPSON	529563162		24	27	32		29	36	50		0.171			
1996		08/09/43	53	22	23	25						75	86	107	
00543	M JIM	528159582		40	53	76		112	141	195		0.285			
1996		05/10/64	32	60	63	68						212	257	339	
00553	D LEWIS	528578308		0	0	0						0.000			
1996		09/24/71	25									0	0	0	

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CURRENT TLD OCCUPATIONAL RADIATION EXPOSURE REPORT - SUMMARY

APPROVED FOR USE IN LIEU OF NRC FORM 5

CUSTOMER NO. 04389

DATE 12/31/96

DOSIMETRY SERVICES

BADGE NO. / CAL YEAR	NAME / NAME	SOCIAL SECURITY NO. / BIRTHDATE	AGE (YRS)	1ST CAL QTR. ACCUMULATED DOSE (mrem) / 2ND CAL QTR. ACCUMULATED DOSE (mrem)				3RD CAL QTR. ACCUMULATED DOSE (mrem) / 4TH CAL QTR. ACCUMULATED DOSE (mrem)				LIFETIME ACCUMULATED DOSE (rem) / CAL YR ACCUMULATED DOSE (mrem)			
				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXT
00567	J PIONKE	570114341		30	30	30						0.034			
1996		04/02/70	26	30	30	30						30	30	30	
00569	E STANLEY	585212807		0	0	0						0.000			
1996		08/19/70	26	0	0	0						0	0	0	
00580	J MAYS	463855453		0	0	16						0.000			
1996		03/17/71	25	0	0	16						0	0	16	
00581	D VICK	585271022		16	36	72		28	45	74		0.211			
1996		02/20/63	33	37	42	52						81	123	198	
00582	T YOUNG	487666349										0.096			
1996		10/16/71	25												
00583	B DEAL	520629593		0	0	21						0.033			
1996		01/25/53	43	0	0	0		33	39	50		33	39	71	
00584	S CNTRL			171	171	171		124	140	169		1.212			
1996				148	148	148						443	459	488	
00585	M CNTRL			20	29	45		27	27	27		0.136			
1996								0	0	26		47	56	98	
00586	A CNTRL			0	0	0		0	0	0		0.000			
1996								0	0	0		0	0	0	
00592	R PALMER	526716099		18	24	36		100	130	186		0.208			
1996		05/17/65	31									118	154	222	
00593	L ATCITTY	529040444		27	32	40						0.087			
1996		07/16/73	23									27	32	40	
00594	R SAMPSON	585761429		25	28	33						0.087			
1996		08/08/54	42									25	28	33	
00595	R ATCITTY	529964914										0.137			
1996		11/08/74	22												
00597	J MYRICK	528622102		0	11	14						0.010			
1996		03/04/48	48									0	11	14	
00598	D NURST	522947236		32	35	40						0.145			
1996		08/03/59	37									32	35	40	
00599	G RICHARDS	457881534		0	0	18		0	0	0		0.011			
1996		05/28/55	41	0	0	14		0	0	0		0	0	32	

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CUSTOMER NO. 04389

DATE 12/31/96

DOSIMETRY SERVICES

BADGE NO. / CAL YEAR	NAME / NAME	SOCIAL SECURITY NO. / BIRTHDATE	AGE (YRS)	1ST CAL QTR. ACCUMULATED DOSE (mrem) / 2ND CAL QTR. ACCUMULATED DOSE (mrem)				3RD CAL QTR. ACCUMULATED DOSE (mrem) / 4TH CAL QTR. ACCUMULATED DOSE (mrem)				LIFETIME ACCUMULATED DOSE (rem) / CAL YR. ACCUMULATED DOSE (mrem)			
				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTR
00601	Z DRAKE	527636257		0	13	25						0.375			
1996		06/13/76	20									0	13	25	
00605	D THOBE	580702107		0	0	13						0.094			
1996		01/29/63	33									0	0	13	
00607	B LAWS	529578429		0	17	33		159	159	159		0.288			
1996		06/23/70	26									159	176	192	
00614	J PRADA	520130125		17	22	30						0.042			
1996		04/13/74	22									17	22	30	
00615	G CANTSEE	528116214		0	0	0						0.012			
1996		12/23/63	33									0	0	0	
00616	K DEAL	520159247		0	0	0						0.000			
1996		12/08/73	23									0	0	0	
00617	J SQUIRES	528214330		24	28	35						0.087			
1996		08/29/76	20									24	28	35	
00618	L TURK	459156244		24	24	24		209	213	222		0.307			
1996		04/06/64	32	42	42	44						275	279	290	
00619	[illegible] ADAMS	5[illegible]9047715		50	65	92						0.107			
1996		0[illegible]/22/68	28									50	65	92	
00620	H BARTLETT	5[illegible]6799895		28	30	33						0.086			
1996		09/10/76	20									28	30	33	
00621	H BAMNALLY	527945435		36	51	77		33	33	33		0.120			
1996		10/29/55	41	15	17	22						84	101	132	
00622	C BRADFORD	528753600		58	59	61		116	142	191		0.300			
1996		04/21/77	19									174	201	252	
00624	R CHRISTENSEN	529411812										0.000			
1996		09/04/70	26												
00625	R HOWELL	524046312		35	48	70						0.068			
1996		10/11/71	25									35	48	70	
00626	D JONES	528[illegible]7841										0.000			
1996		06/19/74	22												
00627	D LEE	528732179		18	19	21						0.105			
1996		03/06/73	23									18	19	21	

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				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXT
00628	M LOBATO	523742120		69	74	82		291	296	304		0.523			
1996		04/05/51	45	46	52	61						406	422	447	
00630	J MAYS	458618511		35	83	169		0	0	14		0.126			
1996		11/04/67	29	40	68	118						75	151	301	
00631	S MYRICK	529510683		53	76	118						0.218			
1996		01/16/69	27									53	76	118	
00632	A NIELSON	523848558		36	43	57						0.189			
1996		10/10/5[illegible]	42									36	43	57	
00633	J NIELSON	528416240		24	35	57						0.134			
1996		07/22/65	31									24	35	57	
00634	B STEVENS	528400137		46	80	143		0	0	14		0.063			
1996		09/24/33	63	0	0	0		0	0	0		46	80	157	
00635	J TOMASYO	529449535		45	45	45						0.086			
1996		07/18/37	59									45	45	45	
00636	R VELASQUEZ	529844310										0.013			
1996		06/16/55	41												
00637	G YAZZIE	526395978		34	39	49						0.074			
1996		05/14/67	29	0	11	21						34	50	70	
00638	E LAWS	524548753		10	10	10						0.010			
1996		12/12/43	53									10	10	10	
00639	G SCHIERMAN	532349365		14	16	18						0.029			
1996		08/17/37	59									14	16	18	
00640	S BLACK	529654307		30	30	30						0.058			
1996		01/10/71	25									30	30	30	
00641	J CHRISTENSEN	528718971										0.709			
1996		12/03/76	20												
00642				28	33	41						0.028			
1996												28	33	41	
00643												0.013			
1996															
00644	L STANLEY	529176851		77	80	85						0.162			
1996		03/05/67	29									77	80	85	

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				2ND CAL QTR. ACCUMULATED DOSE (mrem) DEEP	LENS	SHALLOW	EXTREMITY	4TH CAL QTR. ACCUMULATED DOSE (mrem) DEEP	LENS	SHALLOW	EXTREMITY	CAL YR. ACCUMULATED DOSE (mrem) DEEP	LENS	SHALLOW	EX
00645	P WILSON	523372600		0	0	0						0.054			
1996		12/28/75	21									0	0	0	
00646	D JOHNSON	601309956		45	45	45						0.126			
1996		07/05/74	22									45	45	45	
00647	T BENALLY	530764655		0	0	0						0.042			
1996		12/06/72	24	42	42	44						42	42	44	
00648	DB HAWK	501665781		17	22	32		13	15	18		0.103			
1996		08/28/56	40	27	29	32						57	66	82	
00649	K GUTKE	528751354		0	0	17						0.074			
1996		11/17/78	18					74	74	74		74	74	91	
00650	R MASSEY	528413467										0.000			
1996															
00651	C CARROLL	528413467		38	38	38						0.038			
1996		11/11/72	24									38	38	38	
00652	S LEWIS	528533005		64	84	121						0.064			
1996		03/10/70	26									64	84	121	
00653	R BERG	528665847						0	0	12		0.011			
1996		07/20/47	49	11	11	12		0	0	0		11	11	24	
00654	LK STEVENSON	255862763						0	0	0		0.000			
1996		03/09/53	43									0	0	0	
02001	J WILSON	524567606										0.000			
1996		01/24/46	50												
02002	S SCHIERMAN	523989152										0.000			
1996		09/03/58	38												
02003	WW BRICE	522504613										0.000			
1996		09/28/40	56												
02004	D BERT											0.000			
1996															
02005	I VIGIL											0.000			
1996															
02007	P CLARK	523704374										0.000			
1996		12/25/53	43												

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				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	E
CAL YEAR	NAME	BIRTHDATE	AGE (YRS)	2ND CAL QTR. ACCUMULATED DOSE (mrem)				4TH CAL QTR. ACCUMULATED DOSE (mrem)				CAL YR. ACCUMULATED DOSE (mrem			
				DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	EXTREMITY	DEEP	LENS	SHALLOW	E
05024 1996	A MUHR	529264801										0.019			
05025 1996	F SICKLES	522907265										0.032			
05026 1996	B KEITH	520766444										0.056			
05027 1996	S MUHR	522669423										0.018			
05028 1996	R MAIGAETER	521400625										0.076			
05029 1996	R MCCLUSKY	524292468										0.070			
05030 1996	A LEFTWICH	525135785										0.073			
05031 1996	T SWAIN	521984850										0.016			
05032 1996	S JONES JR											0.117			
05033 1996	L JONES											0.076			
05034 1996	J NIELSON											0.108			
05035 1996	J BEEN	150441166										0.014			

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