



RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) REQUEST

2017-0123

1

RESPONSE TYPE INTERIM FINAL

REQUESTER:

Sammy Almashat

DATE:

12/01/2016

DESCRIPTION OF REQUESTED RECORDS:

Data relating to lifetime radiation exposure, by both length of employment and calendar year, in nuclear power plant workers

PART I. -- INFORMATION RELEASED

- Agency records subject to the request are already available in public ADAMS or on microfiche in the NRC Public Document Room.
- Agency records subject to the request are enclosed.
- Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- We are continuing to process your request.
- See Comments.

PART I.A -- FEES

AMOUNT*

\$

*See Comments for details

- You will be billed by NRC for the amount listed.
- None. Minimum fee threshold not met.
- You will receive a refund for the amount listed.
- Fees waived.

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- We did not locate any agency records responsive to your request. *Note:* Agencies may treat three discrete categories of law enforcement and national security records as not subject to the FOIA ("exclusions"). 5 U.S.C. 552(c). This is a standard notification given to all requesters; it should not be taken to mean that any excluded records do, or do not, exist.
- We have withheld certain information pursuant to the FOIA exemptions described, and for the reasons stated, in Part II.
- Because this is an interim response to your request, you may not appeal at this time. We will notify you of your right to appeal any of the responses we have issued in response to your request when we issue our final determination.
- You may appeal this final determination within 30 calendar days of the date of this response by sending a letter or email to the FOIA Officer, at U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001, or FOIA.Resource@nrc.gov. Please be sure to include on your letter or email that it is a "FOIA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

In conformance with the FOIA Improvement Act of 2016, the NRC is informing you that you have the right to seek assistance from the NRC's FOIA Public Liaison.

SIGNATURE - FREEDOM OF INFORMATION ACT OFFICER

Nina Argent

**Table 5.7
Career External Dose (DDE) Distribution By Dose and Career Length At Reactor Facilities
Career Ending 2012**

Career Length	Number of Persons in Dose Range (rems)															Grand Total
	No Meas.	.001 - .1	.1 - .5	.5 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50	>=50	
<=30 days	2,545	424	72	15	1	-	-	-	-	-	-	-	-	-	-	3,057
31 days - 6 mos	2,148	774	263	13	2	-	-	-	-	-	-	-	-	-	-	3,200
6 mos - 1 yr	958	347	113	9	3	-	-	-	-	-	-	-	-	-	-	1,430
1 - 2 yrs	1,453	772	340	50	18	-	-	-	-	-	-	-	-	-	-	2,633
2 - 3 yrs	587	485	330	76	27	4	-	-	-	-	-	-	-	-	-	1,509
3 - 4 yrs	382	336	239	63	28	7	3	-	-	-	-	-	-	-	-	1,058
4 - 5 yrs	243	275	240	69	46	4	1	-	1	-	-	-	-	-	-	879
5 - 10 yrs	625	567	582	250	187	38	17	12	14	1	-	-	-	-	-	2,293
10 - 15 yrs	210	244	300	140	178	60	28	26	24	3	-	2	-	-	-	1,215
15 - 20 yrs	128	206	212	123	96	45	33	11	42	14	2	1	1	-	-	914
20 - 25 yrs	143	218	188	117	119	81	50	32	71	31	9	1	1	2	-	1,063
25 - 30 yrs	130	334	316	149	172	120	103	57	159	73	29	15	9	7	-	1,673
30 - 35 yrs	61	183	229	144	158	109	105	73	187	89	43	41	13	20	1	1,456
>= 35 yrs	6	50	64	44	73	33	33	34	82	63	27	20	13	23	1	566
Grand Total	9,619	5,215	3,488	1,262	1,108	501	373	245	580	274	110	80	37	52	2	22,946

13.22 yrs Average Career Length for Individuals with Measurable Career Exposure
1.61 rem Average Career Dose for Individuals with Measurable Dose

Scroll to the right for
source data



15.56 yrs Average Career Length for Individuals with Measurable Career Exposure and Careers Lengths of at Least One Year
1.88 rem Average Career Dose for Individuals with Measurable Dose with Career Length of at Least One Year

Only individuals that ended monitoring in 2012 are included in this analysis.

For career length and dose bins, values that are equal to the maximum end of the range are assigned to the next higher bin (i.e., a dose of 0.1 would be assigned to the 0.1-0.5 dose bin).

2012					
DoseRange	CareerLen	NumPersons	DoseRange	CareerLen	NumPersons
1	1	2545	No Meas.	<=30 days	2,545
1	2	2148	No Meas.	31 days - 6 mos	2,148
1	3	958	No Meas.	6 mos - 1 yr	958
1	4	1453	No Meas.	1 - 2 yrs	1,453
1	5	587	No Meas.	2 - 3 yrs	587
1	6	382	No Meas.	3 - 4 yrs	382
1	7	243	No Meas.	4 - 5 yrs	243
1	8	625	No Meas.	5 - 10 yrs	625
1	9	210	No Meas.	10 - 15 yrs	210
1	10	128	No Meas.	15 - 20 yrs	128
1	11	143	No Meas.	20 - 25 yrs	143
1	12	130	No Meas.	25 - 30 yrs	130
1	13	61	No Meas.	30 - 35 yrs	61
1	14	6	No Meas.	> 35 yrs	6
2	1	424	.001 - .1	<=30 days	424
2	2	774	.001 - .1	31 days - 6 mos	774
2	3	347	.001 - .1	6 mos - 1 yr	347
2	4	772	.001 - .1	1 - 2 yrs	772
2	5	485	.001 - .1	2 - 3 yrs	485
2	6	336	.001 - .1	3 - 4 yrs	336
2	7	275	.001 - .1	4 - 5 yrs	275
2	8	567	.001 - .1	5 - 10 yrs	567
2	9	244	.001 - .1	10 - 15 yrs	244
2	10	206	.001 - .1	15 - 20 yrs	206
2	11	218	.001 - .1	20 - 25 yrs	218
2	12	334	.001 - .1	25 - 30 yrs	334
2	13	183	.001 - .1	30 - 35 yrs	183
2	14	50	.001 - .1	> 35 yrs	50
3	1	72	.1 - .5	<=30 days	72
3	2	263	.1 - .5	31 days - 6 mos	263
3	3	113	.1 - .5	6 mos - 1 yr	113
3	4	340	.1 - .5	1 - 2 yrs	340
3	5	330	.1 - .5	2 - 3 yrs	330
3	6	239	.1 - .5	3 - 4 yrs	239
3	7	240	.1 - .5	4 - 5 yrs	240
3	8	582	.1 - .5	5 - 10 yrs	582
3	9	300	.1 - .5	10 - 15 yrs	300
3	10	212	.1 - .5	15 - 20 yrs	212
3	11	188	.1 - .5	20 - 25 yrs	188
3	12	316	.1 - .5	25 - 30 yrs	316
3	13	229	.1 - .5	30 - 35 yrs	229
3	14	64	.1 - .5	> 35 yrs	64

4	1	15	.5 - 1	<=30 days	15
4	2	13	.5 - 1	31 days - 6 mos	13
4	3	9	.5 - 1	6 mos - 1 yr	9
4	4	50	.5 - 1	1 - 2 yrs	50
4	5	76	.5 - 1	2 - 3 yrs	76
4	6	63	.5 - 1	3 - 4 yrs	63
4	7	69	.5 - 1	4 - 5 yrs	69
4	8	250	.5 - 1	5 - 10 yrs	250
4	9	140	.5 - 1	10 - 15 yrs	140
4	10	123	.5 - 1	15 - 20 yrs	123
4	11	117	.5 - 1	20 - 25 yrs	117
4	12	149	.5 - 1	25 - 30 yrs	149
4	13	144	.5 - 1	30 - 35 yrs	144
4	14	44	.5 - 1	> 35 yrs	44
5	1	1	1 - 2	<=30 days	1
5	2	2	1 - 2	31 days - 6 mos	2
5	3	3	1 - 2	6 mos - 1 yr	3
5	4	18	1 - 2	1 - 2 yrs	18
5	5	27	1 - 2	2 - 3 yrs	27
5	6	28	1 - 2	3 - 4 yrs	28
5	7	46	1 - 2	4 - 5 yrs	46
5	8	187	1 - 2	5 - 10 yrs	187
5	9	178	1 - 2	10 - 15 yrs	178
5	10	96	1 - 2	15 - 20 yrs	96
5	11	119	1 - 2	20 - 25 yrs	119
5	12	172	1 - 2	25 - 30 yrs	172
5	13	158	1 - 2	30 - 35 yrs	158
5	14	73	1 - 2	> 35 yrs	73
6	1		2 - 3	<=30 days	-
6	2		2 - 3	31 days - 6 mos	-
6	3		2 - 3	6 mos - 1 yr	-
6	4		2 - 3	1 - 2 yrs	-
6	5	4	2 - 3	2 - 3 yrs	4
6	6	7	2 - 3	3 - 4 yrs	7
6	7	4	2 - 3	4 - 5 yrs	4
6	8	38	2 - 3	5 - 10 yrs	38
6	9	60	2 - 3	10 - 15 yrs	60
6	10	45	2 - 3	15 - 20 yrs	45
6	11	81	2 - 3	20 - 25 yrs	81
6	12	120	2 - 3	25 - 30 yrs	120
6	13	109	2 - 3	30 - 35 yrs	109
6	14	33	2 - 3	> 35 yrs	33
7	1		3 - 4	<=30 days	-
7	2		3 - 4	31 days - 6 mos	-
7	3		3 - 4	6 mos - 1 yr	-

7	4		3-4	1-2 yrs	-
7	5		3-4	2-3 yrs	-
7	6	3	3-4	3-4 yrs	3
7	7	1	3-4	4-5 yrs	1
7	8	17	3-4	5-10 yrs	17
7	9	28	3-4	10-15 yrs	28
7	10	33	3-4	15-20 yrs	33
7	11	50	3-4	20-25 yrs	50
7	12	103	3-4	25-30 yrs	103
7	13	105	3-4	30-35 yrs	105
7	14	33	3-4	>35 yrs	33
8	1		4-5	<=30 days	-
8	2		4-5	31 days - 6 mos	-
8	3		4-5	6 mos - 1 yr	-
8	4		4-5	1-2 yrs	-
8	5		4-5	2-3 yrs	-
8	6		4-5	3-4 yrs	-
8	7		4-5	4-5 yrs	-
8	8	12	4-5	5-10 yrs	12
8	9	26	4-5	10-15 yrs	26
8	10	11	4-5	15-20 yrs	11
8	11	32	4-5	20-25 yrs	32
8	12	57	4-5	25-30 yrs	57
8	13	73	4-5	30-35 yrs	73
8	14	34	4-5	>35 yrs	34
9	1		5-10	<=30 days	-
9	2		5-10	31 days - 6 mos	-
9	3		5-10	6 mos - 1 yr	-
9	4		5-10	1-2 yrs	-
9	5		5-10	2-3 yrs	-
9	6		5-10	3-4 yrs	-
9	7	1	5-10	4-5 yrs	1
9	8	14	5-10	5-10 yrs	14
9	9	24	5-10	10-15 yrs	24
9	10	42	5-10	15-20 yrs	42
9	11	71	5-10	20-25 yrs	71
9	12	159	5-10	25-30 yrs	159
9	13	187	5-10	30-35 yrs	187
9	14	82	5-10	>35 yrs	82
10	1		10-15	<=30 days	-
10	2		10-15	31 days - 6 mos	-
10	3		10-15	6 mos - 1 yr	-
10	4		10-15	1-2 yrs	-
10	5		10-15	2-3 yrs	-
10	6		10-15	3-4 yrs	-

10	7		10 - 15	4 - 5 yrs	-
10	8	1	10 - 15	5 - 10 yrs	1
10	9	3	10 - 15	10 - 15 yrs	3
10	10	14	10 - 15	15 - 20 yrs	14
10	11	31	10 - 15	20 - 25 yrs	31
10	12	73	10 - 15	25 - 30 yrs	73
10	13	89	10 - 15	30 - 35 yrs	89
10	14	63	10 - 15	> 35 yrs	63
11	1		15 - 20	<=30 days	-
11	2		15 - 20	31 days - 6 mos	-
11	3		15 - 20	6 mos - 1 yr	-
11	4		15 - 20	1 - 2 yrs	-
11	5		15 - 20	2 - 3 yrs	-
11	6		15 - 20	3 - 4 yrs	-
11	7		15 - 20	4 - 5 yrs	-
11	8		15 - 20	5 - 10 yrs	-
11	9		15 - 20	10 - 15 yrs	-
11	10	2	15 - 20	15 - 20 yrs	2
11	11	9	15 - 20	20 - 25 yrs	9
11	12	29	15 - 20	25 - 30 yrs	29
11	13	43	15 - 20	30 - 35 yrs	43
11	14	27	15 - 20	> 35 yrs	27
12	1		20 - 25	<=30 days	-
12	2		20 - 25	31 days - 6 mos	-
12	3		20 - 25	6 mos - 1 yr	-
12	4		20 - 25	1 - 2 yrs	-
12	5		20 - 25	2 - 3 yrs	-
12	6		20 - 25	3 - 4 yrs	-
12	7		20 - 25	4 - 5 yrs	-
12	8		20 - 25	5 - 10 yrs	-
12	9	2	20 - 25	10 - 15 yrs	2
12	10	1	20 - 25	15 - 20 yrs	1
12	11	1	20 - 25	20 - 25 yrs	1
12	12	15	20 - 25	25 - 30 yrs	15
12	13	41	20 - 25	30 - 35 yrs	41
12	14	20	20 - 25	> 35 yrs	20
13	1		25 - 30	<=30 days	-
13	2		25 - 30	31 days - 6 mos	-
13	3		25 - 30	6 mos - 1 yr	-
13	4		25 - 30	1 - 2 yrs	-
13	5		25 - 30	2 - 3 yrs	-
13	6		25 - 30	3 - 4 yrs	-
13	7		25 - 30	4 - 5 yrs	-
13	8		25 - 30	5 - 10 yrs	-
13	9		25 - 30	10 - 15 yrs	-
13	10	1	25 - 30	15 - 20 yrs	1
13	11	1	25 - 30	20 - 25 yrs	1

13	12	9	25 - 30	25 - 30 yrs	9
13	13	13	25 - 30	30 - 35 yrs	13
13	14	13	25 - 30	> 35 yrs	13
14	1		30 - 50	<=30 days	-
14	2		30 - 50	31 days - 6 mos	-
14	3		30 - 50	6 mos - 1 yr	-
14	4		30 - 50	1 - 2 yrs	-
14	5		30 - 50	2 - 3 yrs	-
14	6		30 - 50	3 - 4 yrs	-
14	7		30 - 50	4 - 5 yrs	-
14	8		30 - 50	5 - 10 yrs	-
14	9		30 - 50	10 - 15 yrs	-
14	10		30 - 50	15 - 20 yrs	-
14	11	2	30 - 50	20 - 25 yrs	2
14	12	7	30 - 50	25 - 30 yrs	7
14	13	20	30 - 50	30 - 35 yrs	20
14	14	23	30 - 50	> 35 yrs	23
15	1		>50	<=30 days	-
15	2		>50	31 days - 6 mos	-
15	3		>50	6 mos - 1 yr	-
15	4		>50	1 - 2 yrs	-
15	5		>50	2 - 3 yrs	-
15	6		>50	3 - 4 yrs	-
15	7		>50	4 - 5 yrs	-
15	8		>50	5 - 10 yrs	-
15	9		>50	10 - 15 yrs	-
15	10		>50	15 - 20 yrs	-
15	11		>50	20 - 25 yrs	-
15	12		>50	25 - 30 yrs	-
15	13	1	>50	30 - 35 yrs	1
15	14	1	>50	> 35 yrs	1

SQL used to extract data:

```
SELECT MyTbl.DoseRange, MyTbl.CareerLen, Count(*) AS NumPersons FROM MyTbl WHERE (((Year([MaxMon]))<=[LastYearOfWork])) GROUP BY MyTbl.DoseRange, Tbl.CareerLen;
```

```
SELECT Round(Avg(DateDiff('d',[MinMon],[MaxMon])/365),2) AS AvgCareerLen, Round(Avg([TotDDE]),2) AS AvgCareerDose FROM MyTbl WHERE (((MyTbl.DoseRange)>1) AND ((Year([MaxMon]))<=[LastYearOfWork]) AND ((MyTbl.CareerLen)>=[OneYear]));
```

```
SELECT Round(Avg(DateDiff('d',[MinMon],[MaxMon])/365),2) AS AvgCareerLen, Round(Avg([TotDDE]),2) AS AvgCareerDose FROM MyTbl WHERE (((MyTbl.DoseRange)>1) AND ((Year([MaxMon]))<=[LastYearOfWork]));
```

CareerLen is determined by establishing the difference between the last Monitoring_End_Date and the first Monitoring_Begin_Date.

**Table 5.7
Career External Dose (DDE) Distribution By Dose and Career Length At Reactor Facilities
Career Ending 1977 - 2012 (inclusive)**

Career Length	Number of Persons in Dose Range (rems)															Grand Total
	No Meas.	.001 - .1	.1 - .5	.5 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 50	>=50	
<=30 days	161,643	28,565	9,595	2,767	3,182	1,104	63	7	3	-	-	-	-	1	-	206,930
31 days - 6 mos	76,144	42,758	26,236	8,809	6,999	2,479	1,178	304	48	3	2	-	-	-	-	164,960
6 mos - 1 yr	33,457	18,182	10,330	3,239	2,539	1,230	673	301	246	3	-	-	-	-	-	70,200
1 - 2 yrs	30,913	19,713	12,952	4,916	4,019	1,809	1,020	618	758	34	2	1	-	-	-	76,755
2 - 3 yrs	14,940	11,550	8,571	3,554	3,153	1,547	849	562	945	104	9	1	-	-	-	45,785
3 - 4 yrs	9,416	8,230	6,518	3,085	2,743	1,368	749	466	883	169	32	3	1	-	-	33,663
4 - 5 yrs	6,838	6,371	5,318	2,633	2,479	1,283	763	467	931	205	39	15	3	-	-	27,345
5 - 10 yrs	17,135	18,831	16,145	8,339	8,736	4,885	3,029	2,046	4,405	1,203	398	131	49	23	2	85,357
10 - 15 yrs	6,875	9,657	8,917	4,762	5,436	3,276	2,204	1,625	3,904	1,309	536	246	107	91	6	48,951
15 - 20 yrs	3,243	5,613	5,497	3,036	3,398	2,215	1,577	1,155	3,267	1,291	532	307	174	165	7	31,477
20 - 25 yrs	1,615	3,402	3,505	1,949	2,274	1,558	1,085	855	2,472	1,191	544	322	187	235	35	21,229
25 - 30 yrs	653	1,891	2,192	1,191	1,431	986	807	608	1,780	914	513	269	155	205	35	13,630
30 - 35 yrs	221	649	897	563	722	458	358	315	895	493	296	186	115	158	22	6,348
>=35 yrs	62	153	217	132	201	117	88	84	249	165	75	70	37	82	12	1,744
Grand Total	363,155	175,565	116,890	48,975	47,312	24,315	14,443	9,413	20,786	7,084	2,978	1,551	828	960	119	834,374

Average Career Length for Individuals with Measurable Career Exposure: 6.2 yrs
Average Career Dose for Individuals with Measurable Dose (672,126 rem / 471,219 persons): 1.43 rem

Average Career Length for Individuals with Measurable Career Exposure and Careers Lengths of at Least One Year: 9.55 yrs
Average Career Dose for Individuals with Measurable Dose with career length of at least one year (606,683 rem / 300,373 persons): 2.02 rem

	Values where individuals averaged 5 rem/yr during their career - established by querying cumulative dose divided by cumulative number of work years.
	Values where individuals averaged 2 rem/yr during their career - established by querying cumulative dose divided by cumulative number of work years.

Only individuals that ended monitoring during or after 1977 through 2012 are included in this analysis.

For career length and dose bins, values that are equal to the maximum end of the range are assigned to the next higher bin (i.e., a dose of 0.1 would be assigned to the 0.1-0.5 dose bin).

DoseRange	CareerLen	NumPersons
1	1	161643
1	2	76144
1	3	33457
1	4	30913
1	5	14940
1	6	9416
1	7	6838
1	8	17135
1	9	6875
1	10	3243
1	11	1615
1	12	653
1	13	221
1	14	62
2	1	28565
2	2	42758
2	3	18182
2	4	19713
2	5	11550
2	6	8230
2	7	6371
2	8	18831
2	9	9657
2	10	5613
2	11	3402
2	12	1891
2	13	649
2	14	153
3	1	9595
3	2	26236
3	3	10330
3	4	12952
3	5	8571
3	6	6518
3	7	5318
3	8	16145
3	9	8917
3	10	5497
3	11	3505
3	12	2192
3	13	897
3	14	217
4	1	2767
4	2	8809

DoseRange	CareerLen	NumPersons
No Meas.	<=30 days	161,643
No Meas.	31 days - 6 mos	76,144
No Meas.	6 mos - 1 yr	33,457
No Meas.	1 - 2 yrs	30,913
No Meas.	2 - 3 yrs	14,940
No Meas.	3 - 4 yrs	9,416
No Meas.	4 - 5 yrs	6,838
No Meas.	5 - 10 yrs	17,135
No Meas.	10 - 15 yrs	6,875
No Meas.	15 - 20 yrs	3,243
No Meas.	20 - 25 yrs	1,615
No Meas.	25 - 30 yrs	653
No Meas.	30 - 35 yrs	221
No Meas.	> 35 yrs	62
.001 - .1	<=30 days	28,565
.001 - .1	31 days - 6 mos	42,758
.001 - .1	6 mos - 1 yr	18,182
.001 - .1	1 - 2 yrs	19,713
.001 - .1	2 - 3 yrs	11,550
.001 - .1	3 - 4 yrs	8,230
.001 - .1	4 - 5 yrs	6,371
.001 - .1	5 - 10 yrs	18,831
.001 - .1	10 - 15 yrs	9,657
.001 - .1	15 - 20 yrs	5,613
.001 - .1	20 - 25 yrs	3,402
.001 - .1	25 - 30 yrs	1,891
.001 - .1	30 - 35 yrs	649
.001 - .1	> 35 yrs	153
.1 - .5	<=30 days	9,595
.1 - .5	31 days - 6 mos	26,236
.1 - .5	6 mos - 1 yr	10,330
.1 - .5	1 - 2 yrs	12,952
.1 - .5	2 - 3 yrs	8,571
.1 - .5	3 - 4 yrs	6,518
.1 - .5	4 - 5 yrs	5,318
.1 - .5	5 - 10 yrs	16,145
.1 - .5	10 - 15 yrs	8,917
.1 - .5	15 - 20 yrs	5,497
.1 - .5	20 - 25 yrs	3,505
.1 - .5	25 - 30 yrs	2,192
.1 - .5	30 - 35 yrs	897
.1 - .5	> 35 yrs	217
.5 - 1	<=30 days	2,767
.5 - 1	31 days - 6 mos	8,809

4	3	3239	.5 - 1	6 mos - 1 yr	3,239
4	4	4916	.5 - 1	1 - 2 yrs	4,916
4	5	3554	.5 - 1	2 - 3 yrs	3,554
4	6	3085	.5 - 1	3 - 4 yrs	3,085
4	7	2633	.5 - 1	4 - 5 yrs	2,633
4	8	8339	.5 - 1	5 - 10 yrs	8,339
4	9	4762	.5 - 1	10 - 15 yrs	4,762
4	10	3036	.5 - 1	15 - 20 yrs	3,036
4	11	1949	.5 - 1	20 - 25 yrs	1,949
4	12	1191	.5 - 1	25 - 30 yrs	1,191
4	13	563	.5 - 1	30 - 35 yrs	563
4	14	132	.5 - 1	> 35 yrs	132
5	1	3182	1 - 2	<=30 days	3,182
5	2	6999	1 - 2	31 days - 6 mos	6,999
5	3	2539	1 - 2	6 mos - 1 yr	2,539
5	4	4019	1 - 2	1 - 2 yrs	4,019
5	5	3153	1 - 2	2 - 3 yrs	3,153
5	6	2743	1 - 2	3 - 4 yrs	2,743
5	7	2479	1 - 2	4 - 5 yrs	2,479
5	8	8736	1 - 2	5 - 10 yrs	8,736
5	9	5436	1 - 2	10 - 15 yrs	5,436
5	10	3398	1 - 2	15 - 20 yrs	3,398
5	11	2274	1 - 2	20 - 25 yrs	2,274
5	12	1431	1 - 2	25 - 30 yrs	1,431
5	13	722	1 - 2	30 - 35 yrs	722
5	14	201	1 - 2	> 35 yrs	201
6	1	1104	2 - 3	<=30 days	1,104
6	2	2479	2 - 3	31 days - 6 mos	2,479
6	3	1230	2 - 3	6 mos - 1 yr	1,230
6	4	1809	2 - 3	1 - 2 yrs	1,809
6	5	1547	2 - 3	2 - 3 yrs	1,547
6	6	1368	2 - 3	3 - 4 yrs	1,368
6	7	1283	2 - 3	4 - 5 yrs	1,283
6	8	4885	2 - 3	5 - 10 yrs	4,885
6	9	3276	2 - 3	10 - 15 yrs	3,276
6	10	2215	2 - 3	15 - 20 yrs	2,215
6	11	1558	2 - 3	20 - 25 yrs	1,558
6	12	986	2 - 3	25 - 30 yrs	986
6	13	458	2 - 3	30 - 35 yrs	458
6	14	117	2 - 3	> 35 yrs	117
7	1	63	3 - 4	<=30 days	63
7	2	1178	3 - 4	31 days - 6 mos	1,178
7	3	673	3 - 4	6 mos - 1 yr	673
7	4	1020	3 - 4	1 - 2 yrs	1,020
7	5	849	3 - 4	2 - 3 yrs	849

7	6	749	3 - 4	3 - 4 yrs	749
7	7	763	3 - 4	4 - 5 yrs	763
7	8	3029	3 - 4	5 - 10 yrs	3,029
7	9	2204	3 - 4	10 - 15 yrs	2,204
7	10	1577	3 - 4	15 - 20 yrs	1,577
7	11	1085	3 - 4	20 - 25 yrs	1,085
7	12	807	3 - 4	25 - 30 yrs	807
7	13	358	3 - 4	30 - 35 yrs	358
7	14	88	3 - 4	> 35 yrs	88
8	1	7	4 - 5	<=30 days	7
8	2	304	4 - 5	31 days - 6 mos	304
8	3	301	4 - 5	6 mos - 1 yr	301
8	4	618	4 - 5	1 - 2 yrs	618
8	5	562	4 - 5	2 - 3 yrs	562
8	6	466	4 - 5	3 - 4 yrs	466
8	7	467	4 - 5	4 - 5 yrs	467
8	8	2046	4 - 5	5 - 10 yrs	2,046
8	9	1625	4 - 5	10 - 15 yrs	1,625
8	10	1155	4 - 5	15 - 20 yrs	1,155
8	11	855	4 - 5	20 - 25 yrs	855
8	12	608	4 - 5	25 - 30 yrs	608
8	13	315	4 - 5	30 - 35 yrs	315
8	14	84	4 - 5	> 35 yrs	84
9	1	3	5 - 10	<=30 days	3
9	2	48	5 - 10	31 days - 6 mos	48
9	3	246	5 - 10	6 mos - 1 yr	246
9	4	758	5 - 10	1 - 2 yrs	758
9	5	945	5 - 10	2 - 3 yrs	945
9	6	883	5 - 10	3 - 4 yrs	883
9	7	931	5 - 10	4 - 5 yrs	931
9	8	4405	5 - 10	5 - 10 yrs	4,405
9	9	3904	5 - 10	10 - 15 yrs	3,904
9	10	3267	5 - 10	15 - 20 yrs	3,267
9	11	2472	5 - 10	20 - 25 yrs	2,472
9	12	1780	5 - 10	25 - 30 yrs	1,780
9	13	895	5 - 10	30 - 35 yrs	895
9	14	249	5 - 10	> 35 yrs	249
10	1		10 - 15	<=30 days	-
10	2	3	10 - 15	31 days - 6 mos	3
10	3	3	10 - 15	6 mos - 1 yr	3

10	4	34	10 - 15	1 - 2 yrs	34
10	5	104	10 - 15	2 - 3 yrs	104
10	6	169	10 - 15	3 - 4 yrs	169
10	7	205	10 - 15	4 - 5 yrs	205
10	8	1203	10 - 15	5 - 10 yrs	1,203
10	9	1309	10 - 15	10 - 15 yrs	1,309
10	10	1291	10 - 15	15 - 20 yrs	1,291
10	11	1191	10 - 15	20 - 25 yrs	1,191
10	12	914	10 - 15	25 - 30 yrs	914
10	13	493	10 - 15	30 - 35 yrs	493
10	14	165	10 - 15	> 35 yrs	165
11	1		15 - 20	<=30 days	-
11	2	2	15 - 20	31 days - 6 mos	2
11	3		15 - 20	6 mos - 1 yr	-
11	4	2	15 - 20	1 - 2 yrs	2
11	5	9	15 - 20	2 - 3 yrs	9
11	6	32	15 - 20	3 - 4 yrs	32
11	7	39	15 - 20	4 - 5 yrs	39
11	8	398	15 - 20	5 - 10 yrs	398
11	9	536	15 - 20	10 - 15 yrs	536
11	10	532	15 - 20	15 - 20 yrs	532
11	11	544	15 - 20	20 - 25 yrs	544
11	12	513	15 - 20	25 - 30 yrs	513
11	13	296	15 - 20	30 - 35 yrs	296
11	14	75	15 - 20	> 35 yrs	75
12	1		20 - 25	<=30 days	-
12	2		20 - 25	31 days - 6 mos	-
12	3		20 - 25	6 mos - 1 yr	-
12	4	1	20 - 25	1 - 2 yrs	1
12	5	1	20 - 25	2 - 3 yrs	1
12	6	3	20 - 25	3 - 4 yrs	3
12	7	15	20 - 25	4 - 5 yrs	15
12	8	131	20 - 25	5 - 10 yrs	131
12	9	246	20 - 25	10 - 15 yrs	246
12	10	307	20 - 25	15 - 20 yrs	307
12	11	322	20 - 25	20 - 25 yrs	322
12	12	269	20 - 25	25 - 30 yrs	269
12	13	186	20 - 25	30 - 35 yrs	186
12	14	70	20 - 25	> 35 yrs	70
13	1		25 - 30	<=30 days	-
13	2		25 - 30	31 days - 6 mos	-
13	3		25 - 30	6 mos - 1 yr	-
13	4		25 - 30	1 - 2 yrs	-
13	5		25 - 30	2 - 3 yrs	-
13	6	1	25 - 30	3 - 4 yrs	1

13	7	3	25 - 30	4 - 5 yrs	3
13	8	49	25 - 30	5 - 10 yrs	49
13	9	107	25 - 30	10 - 15 yrs	107
13	10	174	25 - 30	15 - 20 yrs	174
13	11	187	25 - 30	20 - 25 yrs	187
13	12	155	25 - 30	25 - 30 yrs	155
13	13	115	25 - 30	30 - 35 yrs	115
13	14	37	25 - 30	> 35 yrs	37
14	1	1	30 - 50	<=30 days	1
14	2		30 - 50	31 days - 6 mos	-
14	3		30 - 50	6 mos - 1 yr	-
14	4		30 - 50	1 - 2 yrs	-
14	5		30 - 50	2 - 3 yrs	-
14	6		30 - 50	3 - 4 yrs	-
14	7		30 - 50	4 - 5 yrs	-
14	8	23	30 - 50	5 - 10 yrs	23
14	9	91	30 - 50	10 - 15 yrs	91
14	10	165	30 - 50	15 - 20 yrs	165
14	11	235	30 - 50	20 - 25 yrs	235
14	12	205	30 - 50	25 - 30 yrs	205
14	13	158	30 - 50	30 - 35 yrs	158
14	14	82	30 - 50	> 35 yrs	82
15	1		>50	<=30 days	-
15	2		>50	31 days - 6 mos	-
15	3		>50	6 mos - 1 yr	-
15	4		>50	1 - 2 yrs	-
15	5		>50	2 - 3 yrs	-
15	6		>50	3 - 4 yrs	-
15	7		>50	4 - 5 yrs	-
15	8	2	>50	5 - 10 yrs	2
15	9	6	>50	10 - 15 yrs	6
15	10	7	>50	15 - 20 yrs	7
15	11	35	>50	20 - 25 yrs	35
15	12	35	>50	25 - 30 yrs	35
15	13	22	>50	30 - 35 yrs	22
15	14	12	>50	> 35 yrs	12

Dear FOIA Requester:

The FOIA Improvement Act of 2016, which was enacted on June 30, 2016, made several changes to the Freedom of Information Act (FOIA). Federal agencies must revise their FOIA regulations to reflect those changes by December 27, 2016. In addition to revising our regulations, we intend to update the Form 464, which we use to respond to FOIA requests.

In the interim, please see the comment box in Part I.C of the attached Form 464. The comment box includes information related to the recent changes to FOIA that is applicable to your FOIA request, including an updated time period for filing an administrative appeal with the NRC.

Sincerely yours,

Nina Argent /S/

Nina Argent
FOIA Officer (Acting)