## **DOE Oversight Bureau, New Mexico Environment Department**

# Direct Penetrating Radiation Monitoring at the Waste Isolation Pilot Plant

Conducted by the
New Mexico Environment Department DOE Oversight Bureau
for Calendar Year 2016

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> > **Final Report**

3/28/2017

The purpose of this communication is to transmit direct penetrating radiation (DPR) dose levels collected at the Waste Isolation Pilot Plant during the calendar year 2015. The data measurements were obtained using the E-PERM® electret ionization chamber system from Rad Elec Inc.

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## Introduction

On average, Americans receive a radiation dose of about 620 mrem each year. Half of this dose (310 mrem) comes from natural background radiation: radon in the air, cosmic rays and the Earth itself. The other half comes from man-made sources of radiation: medical, commercial, and industrial sources (Doses in our Daily Lives, U.S. Nuclear Regulatory Commission website <a href="http://www.nrc.gov/about-nrc/radiation/around-us/doses-daily-lives.html">http://www.nrc.gov/about-nrc/radiation/around-us/doses-daily-lives.html</a>, accessed August 4, 2014).

The environmental dose standard for the Waste Isolation Pilot Plant (WIPP) facility is established in Title 40 Code of Federal Regulations (CFR) Part 191, Subpart A, "Environmental Standards for Management and Storage." The standard sets the regulatory limit for external radiation to a member of the public outside the exclusive use area boundary at 25 mrem per year to the whole body and 75 mrem to any critical organ.

In a 1995 memorandum of understanding between the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE), the DOE agreed that the WIPP facility would comply with 40 CFR Part 61, Subpart H, "National Emission Standards for Emissions of Radionuclides Other Than Radon from Department of Energy Facilities." The National Emissions Standards for Hazardous Air Pollutants (NESHAP) standard for radionuclides requires that the emissions of radionuclides to the ambient air from DOE facilities shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent (EDE) of 10 mrem per year.

The New Mexico Environment Department (NMED) DOE Oversight Bureau (DOE-OB or the Bureau) has measured and compiled Direct Penetrating Radiation (DPR) dose levels recorded at NMED DOE-OB monitoring sites during calendar year (CY) 2016. The Bureau maintains fourteen (14) monitoring sites located at WIPP, in the Exclusive Use Area, and six (6) sites at other locations off-site in the WIPP region (Table 1, Figures 1 and 2) that are sampled quarterly.

Four (4) additional sites were added in off-site locations in CY 2016 (Table 1, Figure 2). These new sites were added to the Bureau's monitoring network to increase the number of off-site sampling locations, and to expand sampling along WIPP transportation routes.

DPR 22 is located in Seven Rivers; DPR 23 is located on the Loop Road, north of Carlsbad; DPR 24 is located on the South Access Road; and DPR 25 is located on Jal Highway. New sampling instrumentation was deployed at each the new sites in the 3<sup>rd</sup> Quarter of CY 2016. The equipment at DPR 22 was lost and was not redeployed during CY 2016.

Table 1. Location and operational details of Direct Penetrating Radiation monitoring stations located inside the WIPP Exclusive Use Area and in the WIPP vicinity.

Location	Location Description	Operational History
DPR 01	Exclusive Use Area, Parking lot	CY2006 Q-3 to present
DPR 02	Exclusive Use Area, Railroad Entrance	CY2006 Q-3 to present
DPR 03	Exclusive Use Area, Southwest Fence Corner	CY2007 Q-1 to present
DPR 04	Exclusive Use Area, South Fence Center	CY2007 Q-1 to present
DPR 05	Exclusive Use Area, Near Southeast Fence Corner	CY2006 Q-3 to present
DPR 06	Exclusive Use Area, Far Southeast Fence Corner	CY2006 Q-3 to present
DPR 07	Exclusive Use Area, East Fence Mid	CY2007 Q-1 to present
DPR 08	Exclusive Use Area, Northeast Fence Corner	CY2007 Q-1 to present
DPR 09	Exclusive Use Area, North-Northeast Fence	CY2007 Q-1 to present
DPR 10	Exclusive Use Area, North Fence Salt Pile	CY2007 Q-1 to present
DPR 11	Exclusive Use Area, Northwest Fence Corner	CY2006 Q-3 to present
DPR 12	Exclusive Use Area, Waste Handling Building,	CY2006 Q-3 to present
	Loading Dock West	
DPR 13	Exclusive Use Area, Waste Handling Building,	CY2006 Q-3 to present
	Loading Dock Center	
DPR 14	Exclusive Use Area, Waste Handling Building,	CY2006 Q-3 to present
	Loading Dock East	
DPR 15	Carlsbad, NM - Canal St.	CY2006 Q-3 to CY2012 Q21
DPR 16	Loving Weigh Station	CY2007 Q3,
		CY2009 Q-3 to present
DPR 17	Malaga Volunteer Fire Department	CY2008 Q-1 to present
DPR 18	Hobbs Highway / North Access Road Intersection	CY2009 Q-1 to present
DPR 19	Southeast Control Tower	CY2011 Q-4 to present
DPR 20	Carlsbad, NM - Guadalupe St. (interior)	CY2012 Q-3 to present
DPR 21	Carlsbad, NM - Guadalupe St. (exterior)	CY2012 Q-3 to present
DPR 22	Seven Rivers	No data
DPR 23	Loop Road / U.S285 Intersection	CY2016 Q-3 to present
DPR 24	South Access Road / Jal Highway Intersection	CY2016 Q-3 to present
DPR 25	Jal Highway	CY2016 Q-3 to present

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<sup>&</sup>lt;sup>1</sup> Sampling at DPR 15 was discontinued after CY2012 Q2 when NMED moved their office from the Canal Street location to the Guadalupe Street location

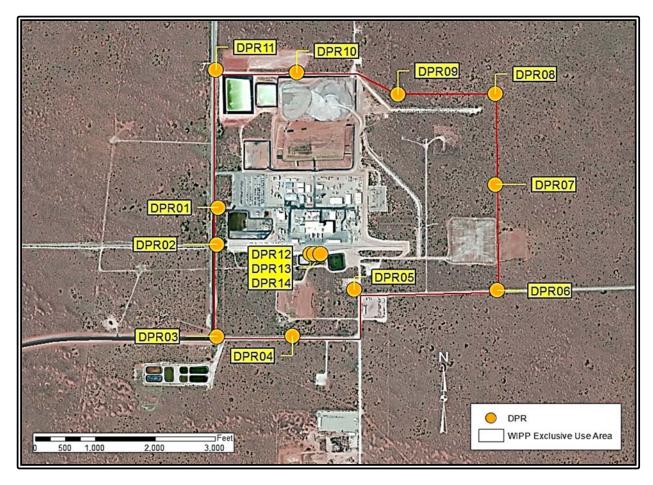


Figure 1. Location of DPR monitors maintained by the DOE Oversight Bureau at the WIPP.

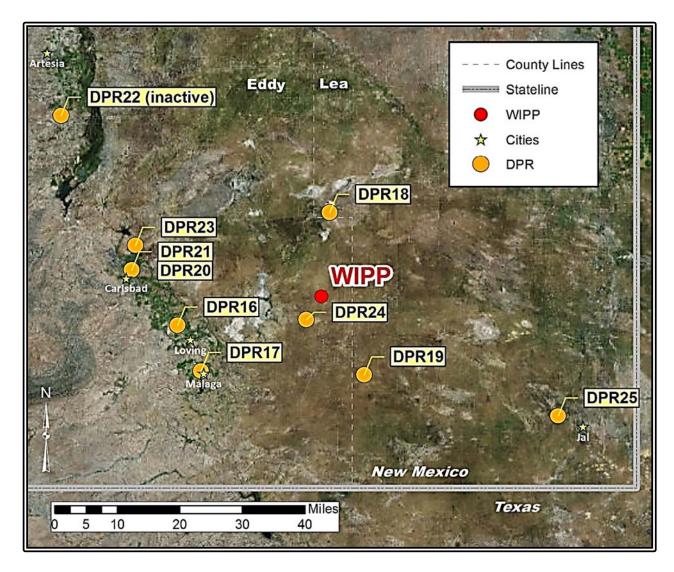


Figure 2. Location of DPR monitors maintained by the DOE Oversight Bureau in the area surrounding WIPP.

The data were obtained using the E-PERM® electret ionization chamber system from Rad Elec Inc. The electret passive ion chamber uses the principle of ion pair production resulting from gamma photons interacting with air molecules to reduce the voltage of a charged Teflon™ disk. The chambers are housed in aluminum canisters designed to block gamma radiation from radon. Using a predetermined formula, the voltage drop indicates the amount of radiation passing through the chamber. NMED DOE-OB's monitoring program reads electret passive ion chambers at the end of each quarter, converts reading into quarterly dose values presented in units of millirads (mrad).

A rad is a unit of absorbed radiation dose, regardless of its source. The rem (Roentgen equivalent man) is a commonly used unit of ionizing radiation dose that uses a quality factor based on the source of radiation as it interacts with human body tissue. In the case of gamma radiation, the quality factor is one, and thus one rad is equal to one rem.

The quarterly dose rates have been normalized to reflect an actual quarter of 91.25 days. Normalized quarterly dose rates are summed for an estimated annual dose rate.

## Results

A summary of the DPR results for each station by quarter, average quarterly dose and total doses for CY 2016 are presented in Table 2 and Figure 3. For the complete dataset, see Appendix 1.

#### First Quarter.

DPR results at the WIPP ranged from a minimum average quarterly dose of 18.5 mrad at the WIPP North-Northeast Fence (DPR09), to a maximum average quarterly dose of 24.4 mrad, measured at both the WIPP Parking Lot (DPR01) and the WIPP Waste Handing Building, Loading Dock Center (DPR13). The largest measurement in the vicinity of WIPP was 31.6 mrad, measured at the at NMED Guadalupe St. Office Exterior (DPR21).

#### Second Quarter.

DPR results at the WIPP ranged from a minimum average quarterly dose of 27.1 mrad at the WIPP Near Southeast Fence Corner (DPR05), to a maximum average quarterly dose of 35.5 mrad at the Northeast Fence Corner (DPR08). The largest measurement in the vicinity of WIPP was 45.4 mrad, measured at the Malaga Volunteer Fire Department (DPR17).

#### Third Quarter.

DPR results at the WIPP ranged from a minimum average quarterly dose of 22.3 mrad at the WIPP Far Southeast Fence Corner (DPR06), to a maximum average quarterly dose of 34.3 mrad at the WIPP Railroad Entrance (DPR02). The largest measurement in the region of WIPP was 39.7 mrad, measured at the Hobbs Highway/North Access Road Intersection (DPR18).

#### Fourth Quarter.

DPR results at the WIPP ranged from a minimum average quarterly dose of 19.7 mrad at the WIPP Northwest Fence Corner (DPR11), to a maximum average quarterly dose of 33.9 at the WIPP Parking Lot (DPR01) The largest measurement in the region surrounding WIPP was 53.1 mrad at NMED Guadalupe St. Office Interior (DPR20).

### Annual Summary:

A review of the historical DPR data collected at WIPP in the surrounding region identified several potential outliers in the dataset. In these instances, one of the three electrets at a location had a voltage drop that was significantly higher or lower than the other two electrets. Potential outliers were compared to the quarterly average across all stations, and data that exceeded 2 and 3 standard deviations from the mean are identified in Table 2. Potential outliers have not been excluded from the results reported or analyzed.

Table 2. NMED DOE OB DPR Results by Quarter, Average Quarterly Dose, and Total Annual Dose by Station Location for Calendar Year (CY) 2016. No data is reported if the data were disqualified (DQ)<sup>2</sup>. (\*) indicates that one of the three electrets' calculated dose exceeds two standard deviations of the mean quarterly average for all stations without a disqualifying event listed in the field notes. (\*\*) indicates that one of the three electrets' calculated dose exceeds three standard deviations of the mean quarterly average for all stations without a disqualifying event listed in the field notes. Total annual doses were not calculated if one or more quarter's data was DQ.

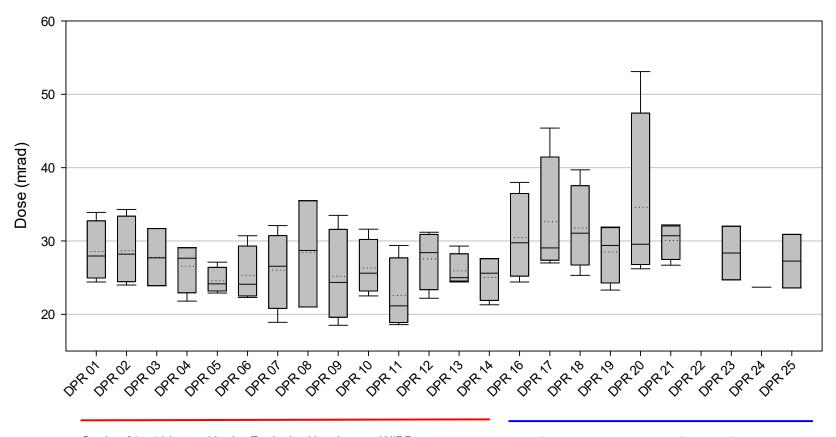
NMED DPR Location	Q1 CY 2016 Dose (mrad)	Q2 CY 2016 Dose (mrad)	Q3 CY 2016 Dose (mrad)	Q4 CY 2016 Dose (mrad)	CY 2016 Average Quarterly Dose (mrad)	CY 2016 Total Annual Dose (mrad)
DPR 01	24.4	29.3	26.6	33.9*	28.6	114.2
DPR 02	24.0	30.6	34.3	25.8	28.7	114.7
DPR 03	23.9	31.7	DQ	27.7	27.8	
DPR 04	21.8	29.1	29.0	26.3	26.6	106.2
DPR 05	24.0	27.1	24.3	22.9	24.6	98.3
DPR 06	23.1	30.7	22.3	25.1	25.3	101.2
DPR 07	18.9	32.1	26.6	26.5	26.0	104.1
DPR 08	21.0	35.5	DQ	28.7	28.4	
DPR 09	18.5	33.5	22.9	25.8	25.2	100.7
DPR 10	22.5	31.6	26.0	25.2	26.3	105.3
DPR 11	18.6	29.4	22.6	19.7	22.6	90.3
DPR 12	22.2	31.2*	30.0	26.8	27.6	110.2
DPR 13	24.4	29.3	25.1	24.9	25.9	103.7
DPR 14	21.3	27.5	27.6	23.7	25.0	100.1
DPR 16	24.4	38.0	27.6	31.9	30.5	121.9
DPR 17	27.0	45.4**	28.5	29.6	32.6	130.5
DPR 18	25.3*	31.1	39.7*	31.0	31.8	127.1
DPR 19	23.3	27.2	31.6	25.6	28.5	114.0
DPR 20	26.2	30.5	28.6	53.1**	34.6	138.4
DPR 21	31.6	32.2	29.8	26.7	30.1	120.3
DPR 22						
DPR 23			32.0	24.7	28.4	
DPR 24				23.7	23.7	
DPR 25			30.9	23.6	27.3	

<sup>&</sup>lt;sup>2</sup> Data is disqualified if the canister or electrets have been found to have been tampered with in any way. Details of the conditions for disqualification are provided in Appendix 1. Disqualified data are not included in any further analysis.

There was no observable trend in the calculated doses measured at individual stations from CY2016 Q-1 to CY2016 Q-4. There were no significant differences in the calculated doses among stations (Figure 3).

In general, the locations sampled off-site of WIPP, in and around the Carlsbad region, had slightly higher quarterly doses (quarterly average  $30.59 \pm 6.55$ , n=54) than the stations located in the Exclusive Use Area on-site at WIPP (quarterly average  $26.25 \pm 4.14$ , n=29).

Data collected during CY 2016 are comparable with historical data (Figure 4). The average quarterly dose across all locations and all quarters in CY 2016 was 27.76  $\pm$  5.48 (n=83). The average quarterly dose across all locations and all quarters from 2006 through 2015 was 27.16  $\pm$  3.85 (n=629). It's important to note that some stations have been sampled quarterly since 2006, while other locations have been sampled since 2012 or 2016 (Table 1), so the sample size varies at each location (Figure 4).

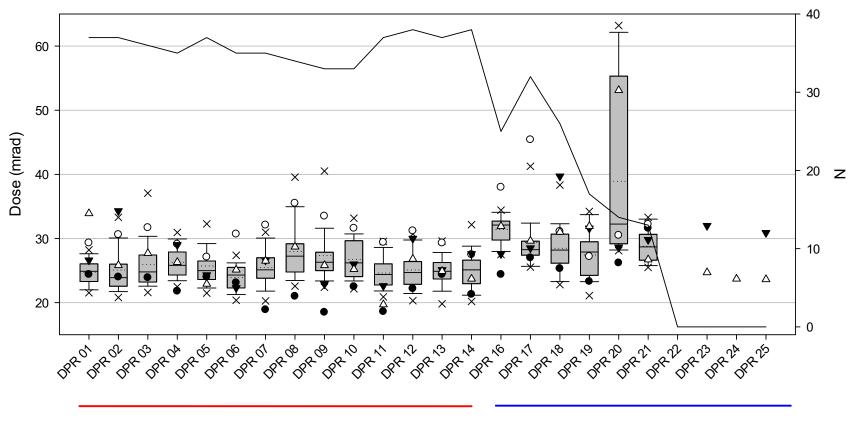


Station 01 - 14 located in the Exclusive Use Area at WIPP

Station 16 - 25 located off-site in Carlsbad region

## Station Location

Figure 3. Average quarterly dose calculations for each DPR monitoring location sampled during CY 2016. Box plots depicting the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles; the solid middle line is the median, the dotted middle line is the mean.



Station 01 - 14 located in the Exclusive Use Area at WIPP

Station 16 - 25 located off-site in Carlsbad region

Site Location

Figure 4. Quarterly dose calculations ( $\bullet$  = Q1,  $\circ$  = Q2,  $\blacktriangledown$  = Q3, and  $\Delta$  = Q4) for each DPR monitoring locations in CY 2016 compared to historical averages, all available quarterly doses 2006-2015. Box plots depicting the 10<sup>th</sup>, 25<sup>th</sup>, 75<sup>th</sup>, and 90<sup>th</sup> percentiles; the solid middle line is the median, the dotted middle line is the mean; X = potential outliers. N = the number of quarterly samples between 2006 and 2015 (black line).

## **Conclusions**

The doses calculated from the NMED DPR locations located at WIPP and in the surrounding region during CY 2016 are comparable with historical results obtained by the DOE Oversight Bureau since 2006. There were some spikes observed above the historical averages from some on-site locations, but overall the 2016 data fall within the range of expected doses.

If you sum the quarterly dose rates measured during CY 2016, the annual direct penetrating radiation dosages measured by the NMED at WIPP and in the region surrounding Carlsbad range from 90.3 to 138.4 mrem. In the case of gamma radiation, the quality factor is one, and thus one rad is equal to one rem. These observed dose rates are less than the average U.S. natural background annual dose of 310 mrem.

#### Reference

Department of Energy and Environmental Protection Agency. "Memorandum of Understanding Between the U.S. EPA and the U.S. DOE Concerning the Clean Air Act Emission Standards for Radionuclides 40 CFR § 61, Including Subparts H, I, Q & T." Signed by Mary D. Nichols, EPA Assistant Administrator for Air and Radiation: September 29, 1994. Signed by Tara O'Toole, DOE Assistant Secretary for Environment, Safety, and Health, April 5, 1995

## Appendix 1 -

Direct Penetrating Radiation Quarterly Dose Rates for CY 2016. Data that have been disqualified are highlighted grey, and provides a brief explanation for the disqualification. (\*) indicates that the calculated dose exceeds two standard deviations of the mean quarterly average for all stations without a disqualifying event listed in the field notes. (\*\*) indicates that the calculated dose exceeds three standard deviations of the mean quarterly average for all stations without a disqualifying event listed in the field notes.

#### CY2016 First Quarter:

DPR01	Parking Lot Entra	nce		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 677	1/4/16 17:30	3/31/16 12:22	46	26.3
SGJ 058	1/4/16 17:31	3/31/16 12:23	35	21.6
SHC 841	1/4/16 17:32	3/31/16 12:19	42	25.2
		Average Quarterl	v Dose in mrad:	24.4

DPR02	Railroad Track Er	ntrance		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 758	1/4/16 17:59	3/31/16 11:50	43	24.6
SHC 749	1/4/16 18:02	3/31/16 11:49	44	25.1
SHV 170	1/4/16 18:01	3/31/16 11:50	39	22.3
		Average Quarterl	v Dose in mrad:	24.0

DPR03	Southwest Fence	Corner		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 736	1/4/16 18:05	3/31/16 12:10	41	24.7
SHC 673	1/4/16 18:05	3/31/16 12:11	42	25.0
SHC 676	1/4/16 18:06	3/31/16 12:12	37	22.0
		Average Quarterl	v Dose in mrad:	23.9

DPR04	South Fence Cen	ter		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 685	1/4/16 18:23	3/31/16 11:32	19.7	20.8
SHC 704	1/4/16 18:24	3/31/16 11:33	36	21.2
SHV 216	1/4/16 18:24	3/31/16 11:34	41	23.5
		Average Quarterl	y Dose in mrad:	21.8

DPR05	Near Southeast F	ence Corner		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGI 991	1/4/16 18:13	3/31/16 11:41	30	18.8
SHC 816	1/4/16 18:14	3/31/16 11:44	49	29.1
SHC 657	1/4/16 18:13	3/31/16 11:45	41	24.2
		Average Quarterl	y Dose in mrad:	24.0

		_		
DPR06	Far Southeast Fe			
EL MANA LID	Start Date and	Finish Date and	Valta a Dana	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGI 982	1/4/16 17:45	3/31/16 12:34	36	21.9
SHC 665	1/4/16 17:45	3/31/16 12:35	39	23.6
SHC 667	1/4/16 17:46	3/31/16 12:35	40	23.8
		Average Quarterl	y Dose in mrad:	23.1
DPR07	East Fence Mid			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGJ 037	1/4/16 18:30	3/31/16 11:53	29	17.1
SHC 674	1/4/16 18:31	3/31/16 11:54	32	18.9
SHC 755	1/4/16 18:32	3/31/16 11:55	34	20.6
		Average Quarterl	y Dose in mrad:	18.9
DPR08	Northeast Fence	Corner		
211100	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 763	1/4/16 18:37	3/31/16 12:28	42	24.0
SHC 760	1/4/16 18:38	3/31/16 12:27	35	19.9
SFK 533	1/4/16 18:36	3/31/16 12:25	31	19.3
OI IX 333	1/4/10 10.50			
		Average Quarterl	y Dose in mrad:	21.0
DPR09	North-Northeast F	ence		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 647	1/4/16 18:42	3/31/16 12:15	30	17.4
SHC 850	1/4/16 18:43	3/31/16 12:17	33	18.9
SHV 205	1/4/16 18:44	3/31/16 12:17	32	19.1
		Average Quarterl	y Dose in mrad:	18.5
DPR10	North Fence Salt	Pile		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 658	1/4/16 18:48	3/31/16 12:32	42	25.6
SHC 765	1/4/16 18:48	3/31/16 12:31	35	21.1
SHC 793	1/4/16 18:49	3/31/16 12:30	34	21.0
		Average Quarterl		22.5
DPR11	Northwest Fence	Corner		
DIKH	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Start Date and Time	Finish Date and Time	Voltage Drop	Normalized
SGJ 083	1/4/16 18:53	3/31/16 11:26	32	19.3
SGJ 063 SGJ 042	1/4/16 18:54	3/31/16 11:27	32 31	18.8
SGJ 986	1/4/16 18:54	3/31/16 11:29	29	17.6
201 900	1/4/10 10.04			
		Average Quarterl	y Dose in mrad:	18.6

DPR12	Waste Handling F	Building Loading D	ock (West)	
DI IXIZ	Start Date and	Finish Date and	ook (1100t)	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 769	1/4/16 17:24	3/31/16 12:04	39	22.3
SHC 722	1/4/16 17:25	3/31/16 12:05	39	22.7
SHC 705	1/4/16 17:26	3/31/16 12:06	37	21.6
		Average Quarterl	y Dose in mrad:	22.2
DDD46	\A( ( ))			
DPR13		Building Loading D	ock (Center)	Occupation In December 1
Electret ID	Start Date and Time	Finish Date and Time	Voltage Drop	Quarterly Dose Normalized
i			44	
SHC 653 SGI 997	1/4/16 17:53	3/31/16 12:01	38	25.9
	1/4/16 17:52	3/31/16 12:02		23.1
SGJ 041	1/4/16 17:51	3/31/16 11:58	39	24.2
		Average Quarterl	y Dose in mrad:	24.4
DPR14	Waste Handling E	Building Loading D	ock (East)	
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 842	1/4/16 18:26	3/31/16 11:46	41	23.9
SHC 716	1/4/16 18:27	3/31/16 11:48	35	20.3
SHC 708	1/4/16 18:27	3/31/16 11:47	34	19.7
		Average Quarterl	y Dose in mrad:	21.3
DPR16	Loving Weigh Sta	tion		
Di Kio	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 675	1/4/16 17:20	3/31/16 12:39	42	23.9
SHC 696	1/4/16 17:19	3/31/16 12:42	39	22.1
SHC 740	1/4/16 17:18	3/31/16 12:41	45	27.1
		Average Quarterl	y Dose in mrad:	24.4
DDD47	Malaga Valuntaan	Fire Department		
DPR17	Malaga Volunteer Start Date and	Finish Date and		Overtarly Dees
Electret ID	Time	Time	Voltage Drop	Quarterly Dose Normalized
SFK 524	1/4/16 18:18	3/31/16 13:07	44	26.8
SFK 543	1/4/16 18:18	3/31/16 13:05	44	27.4
SHD 964	1/4/16 18:19	3/31/16 13:03	48	26.9
OHD 004	17-7/10 10:10	Average Quarterl		27.0
		_	,	
DPR18	Hobbs Hwy / Nort			
	Start Date and	Finish Date and	Valtana Dave	Quarterly Dose
Electret ID	Ti	Ti		
	Time	Time	Voltage Drop	Normalized
SHC 839	1/4/16 19:02	3/31/16 11:21	89	51.5*
SHC 839 SHC 687	1/4/16 19:02 1/4/16 19:02	3/31/16 11:21 3/31/16 11:22	89 6	51.5* 3.2*
SHC 839	1/4/16 19:02	3/31/16 11:21	89 6 37	51.5*

DPR19	Southeast Control	1		
DERTS	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SFK 562	1/4/16 18:10	3/31/16 12:43	36	22.7
SHD 971	1/4/16 18:10	3/31/16 12:46	43	24.8
SHV 195	1/4/16 18:11	3/31/16 12:47	39	22.4
		Average Quarterl	y Dose in mrad:	23.3
DPR20	NMED Guadalupe	St. Office Interior		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHD 902	1/6/16 13:30	3/31/16 13:16	45	26.7
SHD 934	1/6/16 13:30	3/31/16 13:18	42	25.2
SHC 751	1/6/16 13:30	3/31/16 13:17	45	26.7
		Average Quarterl	y Dose in mrad:	26.2
DPR21	NMED Guadalupe	St. Office Exterio	r	
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 774	1/6/16 13:50	3/31/16 13:12	44	27.2
SHC 962	1/6/16 13:50	3/31/16 13:14	42	24.2
SHD 979	1/6/16 13:50	3/31/16 13:15	75	43.5
		Average Quarterl	y Dose in mrad:	31.6
CY2016 Sec	ond Quarter:			
DPR01				
DPRUI	Parking Lot Entra	nce		
DPKUI	Parking Lot Entrain Start Date and	nce Finish Date and		Quarterly Dose
Electret ID	•		Voltage Drop	Quarterly Dose Normalized
-	Start Date and	Finish Date and	Voltage Drop 52	
Electret ID	Start Date and Time	Finish Date and Time		Normalized
Electret ID SHC 650	Start Date and Time 3/29/16 13:00	Finish Date and Time 7/1/16 13:00	52	Normalized 29.5
Electret ID SHC 650 SHC 659	Start Date and Time  3/29/16 13:00 3/29/16 13:00	Finish Date and Time 7/1/16 13:00 7/1/16 13:00	52 52 51	Normalized 29.5 29.4
Electret ID SHC 650 SHC 659	Start Date and Time  3/29/16 13:00 3/29/16 13:00	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00  Average Quarterl	52 52 51	Normalized 29.5 29.4 29.1
Electret ID SHC 650 SHC 659 SHC 726	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00  Average Quarterl	52 52 51	29.5 29.4 29.1 <b>29.3</b> Quarterly Dose
Electret ID SHC 650 SHC 659 SHC 726	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En	Finish Date and Time  7/1/16 13:00  7/1/16 13:00  7/1/16 13:00  Average Quarterly  trance	52 52 51	Normalized  29.5  29.4  29.1  29.3
Electret ID SHC 650 SHC 659 SHC 726	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00 Average Quarterly  trance Finish Date and	52 52 51 <b>y Dose in mrad</b> :	29.5 29.4 29.1 <b>29.3</b> Quarterly Dose
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time	Finish Date and Time 7/1/16 13:00 7/1/16 13:00 7/1/16 13:00 Average Quarterl trance Finish Date and Time	52 52 51 <b>y Dose in mrad:</b> Voltage Drop	Normalized 29.5 29.4 29.1 29.3  Quarterly Dose Normalized
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time 3/29/16 12:00	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00 Average Quarterly  trance Finish Date and Time  7/1/16 13:05	52 52 51 y Dose in mrad: Voltage Drop 54	Normalized  29.5 29.4 29.1 29.3  Quarterly Dose Normalized  31.0
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00 Average Quarterl  trance Finish Date and Time  7/1/16 13:05 7/1/16 13:05	52 52 51 <b>y Dose in mrad:</b> Voltage Drop 54 55 52	Normalized  29.5 29.4 29.1 29.3  Quarterly Dose Normalized  31.0 31.0
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00  Average Quarterly  trance Finish Date and Time  7/1/16 13:05 7/1/16 13:05 7/1/16 13:05 Average Quarterly	52 52 51 <b>y Dose in mrad:</b> Voltage Drop 54 55 52	29.5 29.4 29.1 29.3  Quarterly Dose Normalized 31.0 31.0 29.8
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835 SHC 856  DPR03	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00 3/29/16 12:00	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00  Average Quarterly  trance Finish Date and Time  7/1/16 13:05 7/1/16 13:05 7/1/16 13:05 Average Quarterly	52 52 51 <b>y Dose in mrad:</b> Voltage Drop 54 55 52	Normalized  29.5 29.4 29.1 29.3  Quarterly Dose Normalized  31.0 31.0 29.8 30.6  Quarterly Dose
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835 SHC 856	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00 3/29/16 12:00 Southwest Fence	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00 Average Quarterly  trance Finish Date and Time  7/1/16 13:05 7/1/16 13:05 7/1/16 13:05 Average Quarterly  Corner	52 52 51 <b>y Dose in mrad:</b> Voltage Drop 54 55 52	29.5 29.4 29.1 29.3  Quarterly Dose Normalized 31.0 31.0 29.8 30.6
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835 SHC 856  DPR03	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00 3/29/16 12:00  Southwest Fence Start Date and	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00 Average Quarterly  trance Finish Date and Time  7/1/16 13:05 7/1/16 13:05 7/1/16 13:05 Average Quarterly  Corner Finish Date and	52 52 51 y Dose in mrad: Voltage Drop 54 55 52 y Dose in mrad:	Normalized  29.5 29.4 29.1 29.3  Quarterly Dose Normalized  31.0 31.0 29.8 30.6  Quarterly Dose
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835 SHC 856  DPR03  Electret ID	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00 3/29/16 12:00  Southwest Fence Start Date and Time	Finish Date and Time  7/1/16 13:00 7/1/16 13:00 7/1/16 13:00  Average Quarterl  trance Finish Date and Time  7/1/16 13:05 7/1/16 13:05 7/1/16 13:05 Average Quarterl  Corner Finish Date and Time	52 52 51 y Dose in mrad: Voltage Drop 54 55 52 y Dose in mrad: Voltage Drop	Normalized  29.5 29.4 29.1 29.3  Quarterly Dose Normalized  31.0 29.8 30.6  Quarterly Dose Normalized
Electret ID SHC 650 SHC 659 SHC 726  DPR02  Electret ID SHC 754 SHC 835 SHC 856  DPR03  Electret ID SHD 931	Start Date and Time  3/29/16 13:00 3/29/16 13:00 3/29/16 13:00  Railroad Track En Start Date and Time  3/29/16 12:00 3/29/16 12:00 3/29/16 12:00  Southwest Fence Start Date and Time  3/29/16 12:24	Finish Date and  Time  7/1/16 13:00  7/1/16 13:00  7/1/16 13:00  Average Quarterly  trance  Finish Date and  Time  7/1/16 13:05  7/1/16 13:05  7/1/16 13:05  Average Quarterly  Corner  Finish Date and  Time  7/1/16 13:05	52 52 51  y Dose in mrad:  Voltage Drop 54 55 52  y Dose in mrad:  Voltage Drop 53	Normalized  29.5 29.4 29.1 29.3  Quarterly Dose Normalized  31.0 31.0 29.8 30.6  Quarterly Dose Normalized

Average Quarterly Dose in mrad:

31.7

DPR04	South Fence Cent	tor		
DFR04	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGI 976	3/29/16 13:12	7/1/16 13:11	43	25.2
SHC 768	3/29/16 13:12	7/1/16 13:11	51	29.4
SHC 771	3/29/16 13:12	7/1/16 13:11	58	32.7
		Average Quarterl	y Dose in mrad:	29.1
DPR05	Near Southeast F	onco Cornor		
DERUS	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGJ 044	3/29/16 12:10	7/1/16 13:14	47	27.1
SGJ 109	3/29/16 12:10	7/1/16 13:14	44	25.5
SHC 688	3/29/16 12:10	7/1/16 13:14	50	28.6
		Average Quarterl	y Dose in mrad:	27.1
DPR06	Far Southeast Fer	ana Carnar	-	
DPKUO	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 761	3/29/16 12:07	7/1/16 13:17	54	30.1
SHC 821	3/29/16 12:07	7/1/16 13:17	58	31.5
SHD 912	3/29/16 12:07	7/1/16 13:17	56	30.4
		Average Quarterl	y Dose in mrad:	30.7
DPR07	East Fence Mid			
DFRUI	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 694	3/29/16 12:52	7/1/16 13:24	57	31.0
SHC 853	3/29/16 12:52	7/1/16 13:24	64	34.9
SHD 962	3/29/16 12:52	7/1/16 13:24	56	30.4
		Average Quarterl	y Dose in mrad:	32.1
DPR08	Northeast Fence (	Corner		
DI 100	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 686	3/29/16 12:17	7/1/16 13:28	64	36.2
SHD 942	3/29/16 12:17	7/1/16 13:28	58	31.4
SHV 211	3/29/16 12:17	7/1/16 13:28	70	39.0
		Average Quarterl	y Dose in mrad:	35.5
DPR09	North-Northeast F	ence		
2	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 830	3/29/16 12:39	7/1/16 13:30	56	30.7
SHD 939	3/29/16 12:39	7/1/16 13:30	68	37.2
SHD 954	3/29/16 12:39	7/1/16 13:30	60	32.6
		Average Quarterl	y Dose in mrad:	33.5

DPR10	North Fence Salt	Pile		
DI ICIO	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGI 957	3/29/16 13:06	7/1/16 13:33	47	27.2
SHC 689	3/29/16 13:06	7/1/16 13:33	59	33.7
SHC 778	3/29/16 13:06	7/1/16 13:33	59	33.8
		Average Quarterl	y Dose in mrad:	31.6
DPR11	Northwest Fence	Corner		
DI KII	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 666	3/29/16 12:04	7/1/16 13:37	55	32.5
SHC 678	3/29/16 12:04	7/1/16 13:37	45	26.0
SIR 670	3/29/16 12:04	7/1/16 13:37	50	29.8
		Average Quarterl	y Dose in mrad:	29.4
DPR12	Waste Handling I	Building Loading D	ock (West)	
DI IXIZ	Start Date and	Finish Date and	ook (1100t)	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 644	3/29/16 12:35	7/1/16 13:45	48	26.9
SHC 743	3/29/16 12:35	7/1/16 13:45	92	52.8*
SHC 777	3/29/16 12:35	7/1/16 13:45	25	13.9
		Average Quarterl	y Dose in mrad:	31.2
DPR13	Waste Handling I	Building Loading D	ock (Center)	
	Start Date and	Finish Date and	(	Quarterly Dose
Electret ID			Voltage Drop	Quarterly Dose Normalized
Electret ID SHC 672	Start Date and	Finish Date and	,	
	Start Date and Time	Finish Date and Time	Voltage Drop	Normalized
SHC 672	Start Date and Time 3/29/16 12:21	Finish Date and Time 7/1/16 13:48	Voltage Drop 53	Normalized 30.0
SHC 672 SHC 799	Start Date and Time  3/29/16 12:21 3/29/16 12:21	Finish Date and Time  7/1/16 13:48  7/1/16 13:48	Voltage Drop 53 49 54	Normalized 30.0 27.4
SHC 672 SHC 799	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21	Finish Date and Time 7/1/16 13:48 7/1/16 13:48 7/1/16 13:48	Voltage Drop 53 49 54 y Dose in mrad:	Normalized 30.0 27.4 30.4
SHC 672 SHC 799 SHC 863	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21	Finish Date and Time 7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl	Voltage Drop 53 49 54 y Dose in mrad:	Normalized 30.0 27.4 30.4
SHC 672 SHC 799 SHC 863	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I	Finish Date and Time  7/1/16 13:48  7/1/16 13:48  7/1/16 13:48  Average Quarterl  Building Loading D	Voltage Drop 53 49 54 y Dose in mrad:	Normalized 30.0 27.4 30.4 29.3
SHC 672 SHC 799 SHC 863	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D  Finish Date and	Voltage Drop 53 49 54 y Dose in mrad: ock (East)	30.0 27.4 30.4 29.3 Quarterly Dose
SHC 672 SHC 799 SHC 863 DPR14 Electret ID	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time	Finish Date and Time 7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl Building Loading D Finish Date and Time	Voltage Drop 53 49 54 y Dose in mrad: ock (East) Voltage Drop	Normalized 30.0 27.4 30.4 29.3  Quarterly Dose Normalized
SHC 672 SHC 799 SHC 863 DPR14 Electret ID SHC 645	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time  3/29/16 13:08	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52	Voltage Drop 53 49 54 y Dose in mrad: ock (East) Voltage Drop 50	Normalized 30.0 27.4 30.4 29.3  Quarterly Dose Normalized 27.9
SHC 672 SHC 799 SHC 863 DPR14  Electret ID  SHC 645 SHC 715	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time  3/29/16 13:08 3/29/16 13:08	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48  Average Quarterl  Building Loading D  Finish Date and Time  7/1/16 13:52 7/1/16 13:52	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49	Normalized 30.0 27.4 30.4 29.3  Quarterly Dose Normalized 27.9 27.0
SHC 672 SHC 799 SHC 863 DPR14  Electret ID  SHC 645 SHC 715	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time  3/29/16 13:08 3/29/16 13:08	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52 7/1/16 13:52 7/1/16 13:52 Average Quarterl	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49	Normalized  30.0 27.4 30.4 29.3  Quarterly Dose Normalized  27.9 27.0 27.6
SHC 672 SHC 799 SHC 863 DPR14 Electret ID SHC 645 SHC 715 SHC 849	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time  3/29/16 13:08 3/29/16 13:08 3/29/16 13:08  Loving Weigh Start Date and	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52 7/1/16 13:52 7/1/16 13:52 Average Quarterl	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49	30.0 27.4 30.4 29.3  Quarterly Dose Normalized  27.9 27.0 27.6 27.5  Quarterly Dose
SHC 672 SHC 799 SHC 863  DPR14  Electret ID SHC 645 SHC 715 SHC 849  DPR16  Electret ID	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time  3/29/16 13:08 3/29/16 13:08 3/29/16 13:08  Loving Weigh Start Date and Time	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52 7/1/16 13:52 7/1/16 13:52 Average Quarterl  ation Finish Date and Time	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49	Normalized  30.0 27.4 30.4 29.3  Quarterly Dose Normalized  27.9 27.0 27.6 27.5  Quarterly Dose Normalized
SHC 672 SHC 799 SHC 863  DPR14  Electret ID SHC 645 SHC 715 SHC 849  DPR16  Electret ID SHC 724	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling It Start Date and Time  3/29/16 13:08 3/29/16 13:08 3/29/16 13:08  Loving Weigh Start Date and Time  3/29/16 13:16	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52 7/1/16 13:52 7/1/16 13:52 Average Quarterl  ation Finish Date and Time  7/1/16 13:55	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49 y Dose in mrad:  Voltage Drop 74	Normalized  30.0 27.4 30.4 29.3  Quarterly Dose Normalized  27.9 27.0 27.6 27.5  Quarterly Dose Normalized  40.5
SHC 672 SHC 799 SHC 863  DPR14  Electret ID SHC 645 SHC 715 SHC 849  DPR16  Electret ID SHC 724 SHC 725	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling I Start Date and Time  3/29/16 13:08 3/29/16 13:08 3/29/16 13:08  Loving Weigh Start Date and Time  3/29/16 13:16 3/29/16 13:16	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52 7/1/16 13:52 Average Quarterl  ation Finish Date and Time  7/1/16 13:55 7/1/16 13:55 7/1/16 13:55	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49 y Dose in mrad:  Voltage Drop 74 67	30.0 27.4 30.4 29.3  Quarterly Dose Normalized  27.9 27.0 27.6 27.5  Quarterly Dose Normalized
SHC 672 SHC 799 SHC 863  DPR14  Electret ID SHC 645 SHC 715 SHC 849  DPR16  Electret ID SHC 724	Start Date and Time  3/29/16 12:21 3/29/16 12:21 3/29/16 12:21  Waste Handling It Start Date and Time  3/29/16 13:08 3/29/16 13:08 3/29/16 13:08  Loving Weigh Start Date and Time  3/29/16 13:16	Finish Date and Time  7/1/16 13:48 7/1/16 13:48 7/1/16 13:48 Average Quarterl  Building Loading D Finish Date and Time  7/1/16 13:52 7/1/16 13:52 7/1/16 13:52 Average Quarterl  ation Finish Date and Time  7/1/16 13:55	Voltage Drop 53 49 54 y Dose in mrad: ock (East)  Voltage Drop 50 48 49 y Dose in mrad:  Voltage Drop 74	Normalized  30.0 27.4 30.4 29.3  Quarterly Dose Normalized  27.9 27.0 27.6 27.5  Quarterly Dose Normalized  40.5

DPR17	Malaga Volunteei	Fire Department		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHD 893	3/29/16 12:42	7/1/16 14:05	65	34.9
SHD 895	3/29/16 12:42	7/1/16 14:05	127	69.6**
SHV 916	3/29/16 12:42	7/1/16 14:05	59	31.7
		Average Quarterl	y Dose in mrad:	45.4
DPR18	Hobbs Hwy / Nor	th Access Rd		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 744	3/29/16 12:15	7/1/16 14:08	59	32.0
SHD 928	3/29/16 12:15	7/1/16 14:08	50	27.0
SHD 983	3/29/16 12:15	7/1/16 14:08	62	34.2
		Average Quarterl	y Dose in mrad:	31.1
DPR19	Southeast Contro	ol		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 715	3/29/16 12:32	7/1/16 14:12	44	26.2
SGJ 103	3/29/16 12:32	7/1/16 14:12	48	27.9
SGJ 104	3/29/16 12:32	7/1/16 14:12	47	27.4
		Average Quarterl	y Dose in mrad:	27.2
DPR20	•	e St. Office Interior		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Start Date and Time	Finish Date and Time	Voltage Drop	Normalized
Electret ID SHD 751	Start Date and Time 3/31/16 13:16	Finish Date and Time 7/1/16 14:18	Voltage Drop 54	Normalized 29.7
Electret ID SHD 751 SHD 902	Start Date and Time  3/31/16 13:16  3/31/16 13:16	Finish Date and Time 7/1/16 14:18 7/1/16 14:18	Voltage Drop 54 60	Normalized 29.7 33.1
Electret ID SHD 751	Start Date and Time 3/31/16 13:16	Finish Date and Time 7/1/16 14:18 7/1/16 14:18 7/1/16 14:18	Voltage Drop 54 60 51	Normalized 29.7 33.1 28.5
Electret ID SHD 751 SHD 902	Start Date and Time  3/31/16 13:16  3/31/16 13:16	Finish Date and Time 7/1/16 14:18 7/1/16 14:18	Voltage Drop 54 60 51	Normalized 29.7 33.1
Electret ID SHD 751 SHD 902	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16	Finish Date and Time 7/1/16 14:18 7/1/16 14:18 7/1/16 14:18	Voltage Drop 54 60 51 y Dose in mrad:	Normalized 29.7 33.1 28.5
Electret ID SHD 751 SHD 902 SHD 934	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and	Finish Date and Time 7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl e St. Office Exterio Finish Date and	Voltage Drop 54 60 51 y Dose in mrad:	Normalized 29.7 33.1 28.5
Electret ID SHD 751 SHD 902 SHD 934	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup	Finish Date and Time  7/1/16 14:18  7/1/16 14:18  7/1/16 14:18  Average Quarterle  e St. Office Exterio	Voltage Drop 54 60 51 y Dose in mrad:	Normalized 29.7 33.1 28.5 30.5
Electret ID SHD 751 SHD 902 SHD 934  DPR21	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and	Finish Date and Time 7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl e St. Office Exterio Finish Date and	Voltage Drop 54 60 51 y Dose in mrad:	29.7 33.1 28.5 <b>30.5</b> Quarterly Dose
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time	Finish Date and Time  7/1/16 14:18  7/1/16 14:18  7/1/16 14:18  Average Quarterle  e St. Office Exterio  Finish Date and Time  7/1/16 14:20  7/1/16 14:20	Voltage Drop 54 60 51 y Dose in mrad: r Voltage Drop	Normalized 29.7 33.1 28.5 30.5  Quarterly Dose Normalized
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterle  e St. Office Exterio Finish Date and Time  7/1/16 14:20	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51	Normalized  29.7  33.1  28.5  30.5  Quarterly Dose Normalized  30.7
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12	Finish Date and Time  7/1/16 14:18  7/1/16 14:18  7/1/16 14:18  Average Quarterle  e St. Office Exterio  Finish Date and Time  7/1/16 14:20  7/1/16 14:20	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60	Normalized  29.7 33.1 28.5 30.5  Quarterly Dose Normalized  30.7 32.3
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl  e St. Office Exterio Finish Date and Time  7/1/16 14:20 7/1/16 14:20 7/1/16 14:20	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60	29.7 33.1 28.5 30.5  Quarterly Dose Normalized 30.7 32.3 33.6
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692 SHD 979  CY2016 Thir	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12 3/31/16 13:12	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl  e St. Office Exterio Finish Date and Time  7/1/16 14:20 7/1/16 14:20 7/1/16 14:20 Average Quarterl	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60	29.7 33.1 28.5 30.5  Quarterly Dose Normalized 30.7 32.3 33.6
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692 SHD 979	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl  e St. Office Exterio Finish Date and Time  7/1/16 14:20 7/1/16 14:20 7/1/16 14:20 Average Quarterl	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60	29.7 33.1 28.5 30.5  Quarterly Dose Normalized 30.7 32.3 33.6 32.2
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692 SHD 979  CY2016 Thir	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12 3/31/16 13:12  ad Quarter: Parking Lot Entra	Finish Date and Time  7/1/16 14:18  7/1/16 14:18  7/1/16 14:18  Average Quarterle  St. Office Exterio Finish Date and Time  7/1/16 14:20  7/1/16 14:20  Average Quarterle  Average Quarterle  Ince	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60	29.7 33.1 28.5 30.5  Quarterly Dose Normalized 30.7 32.3 33.6
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692 SHD 979  CY2016 Thir DPR01	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12 3/31/16 13:12  rd Quarter:  Parking Lot Entra Start Date and	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl  e St. Office Exterio Finish Date and Time  7/1/16 14:20 7/1/16 14:20 Average Quarterl  average Quarterl	Voltage Drop 54 60 51 y Dose in mrad:  r  Voltage Drop 51 58 60 y Dose in mrad:	29.7 33.1 28.5 30.5  Quarterly Dose Normalized 30.7 32.3 33.6 32.2  Quarterly Dose
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692 SHD 979  CY2016 Thir DPR01  Electret ID	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12 3/31/16 13:12  Tod Quarter:  Parking Lot Entra Start Date and Time	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl  e St. Office Exterio Finish Date and Time  7/1/16 14:20 7/1/16 14:20 Average Quarterl  ance Finish Date and Time  Finish Date and Time	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60 y Dose in mrad:  Voltage Drop	Normalized  29.7 33.1 28.5 30.5  Quarterly Dose Normalized  30.7 32.3 33.6 32.2  Quarterly Dose Normalized
Electret ID SHD 751 SHD 902 SHD 934  DPR21  Electret ID SIR 543 SHC 692 SHD 979  CY2016 Thir DPR01  Electret ID SHC 841	Start Date and Time  3/31/16 13:16 3/31/16 13:16 3/31/16 13:16  NMED Guadalup Start Date and Time  3/31/16 13:12 3/31/16 13:12 3/31/16 13:12 3/31/16 13:12  Tod Quarter: Parking Lot Entra Start Date and Time  6/28/16 12:34	Finish Date and Time  7/1/16 14:18 7/1/16 14:18 7/1/16 14:18 Average Quarterl  e St. Office Exterio Finish Date and Time  7/1/16 14:20 7/1/16 14:20 Average Quarterl  average Quarterl  e Finish Date and Time  9/30/16 11:51	Voltage Drop 54 60 51 y Dose in mrad: r  Voltage Drop 51 58 60 y Dose in mrad:  Voltage Drop 44	Normalized  29.7 33.1 28.5 30.5  Quarterly Dose Normalized  30.7 32.3 33.6 32.2  Quarterly Dose Normalized

**Average Quarterly Dose in mrad:** 

26.6

DPR02	Railroad Track Er	ntrance		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 758	6/28/16 12:41	9/30/16 12:01	64	35.9
SHV170	6/28/16 12:44	9/30/16 12:01	54	30.1
SHC 749	6/28/16 12:43	9/30/16 12:01	66	37.0
		Average Quarterl	y Dose in mrad:	34.3
DPR03	Southwest Fence	Corner - Canister	not retrieved	
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 736	6/28/16 12:47			
SHC 673	6/28/16 12:47			
SHC 676	6/28/16 12:48			
		Average Quarterl	y Dose in mrad:	
DPR04	South Fence Cen	ter		
Di ito-	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHV216	6/28/16 12:51	9/30/16 12:12	54	30.3
SHC 704	6/28/16 12:51	9/30/16 12:12	51	29.4
SHC 685	6/28/16 12:53	9/30/16 12:12	47	27.3
		Average Quarterl	y Dose in mrad:	29.0
DDD05	Noor Southoast E	•	y Dose in mrad:	29.0
DPR05	Near Southeast F	ence Corner	y Dose in mrad:	
DPR05 Electret ID	Near Southeast F Start Date and Time	•		<b>29.0</b> Quarterly Dose  Normalized
	Start Date and	ence Corner Finish Date and Time	y Dose in mrad:  Voltage Drop  47	Quarterly Dose Normalized
Electret ID	Start Date and Time	ence Corner Finish Date and	Voltage Drop	Quarterly Dose
Electret ID SIR 449	Start Date and Time 6/28/16 12:55	ence Corner Finish Date and Time 9/30/16 12:15	Voltage Drop 47	Quarterly Dose Normalized 25.2
Electret ID SIR 449 SHC 816	Start Date and Time 6/28/16 12:55 6/28/16 12:56	ence Corner Finish Date and Time 9/30/16 12:15 9/30/16 12:15	Voltage Drop 47 46 38	Quarterly Dose Normalized 25.2 26.2
Electret ID SIR 449 SHC 816 SHC 657	Start Date and Time 6/28/16 12:55 6/28/16 12:56 6/28/16 12:57	ence Corner Finish Date and Time 9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl	Voltage Drop 47 46 38	Quarterly Dose Normalized 25.2 26.2 21.4
Electret ID SIR 449 SHC 816	Start Date and Time 6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fereign	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl	Voltage Drop 47 46 38	Quarterly Dose Normalized 25.2 26.2 21.4 24.3
Electret ID SIR 449 SHC 816 SHC 657	Start Date and Time 6/28/16 12:55 6/28/16 12:56 6/28/16 12:57	ence Corner Finish Date and Time 9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl	Voltage Drop 47 46 38	Quarterly Dose Normalized 25.2 26.2 21.4
SIR 449 SHC 816 SHC 657	Start Date and Time 6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fel Start Date and	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and	Voltage Drop 47 46 38 y Dose in mrad:	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID	Start Date and Time 6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fer Start Date and Time	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time	Voltage Drop 47 46 38 y Dose in mrad:  Voltage Drop	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761	Start Date and Time 6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Ference Start Date and Time 3/29/16 12:07	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time  7/1/16 13:17	Voltage Drop 47 46 38 y Dose in mrad:  Voltage Drop 32	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fell Start Date and Time  3/29/16 12:07 3/29/16 12:07	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17	Voltage Drop  47 46 38 y Dose in mrad:  Voltage Drop  32 42 40	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821 SHD 912	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Ference Start Date and Time  3/29/16 12:07 3/29/16 12:07 3/29/16 12:07	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17	Voltage Drop  47 46 38 y Dose in mrad:  Voltage Drop  32 42 40	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4 23.6
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fer Start Date and Time  3/29/16 12:07 3/29/16 12:07 3/29/16 12:07	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17 Average Quarterl	Voltage Drop  47 46 38 y Dose in mrad:  Voltage Drop  32 42 40	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4 23.6 22.3
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821 SHD 912	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Ference Start Date and Time  3/29/16 12:07 3/29/16 12:07 3/29/16 12:07	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17	Voltage Drop  47 46 38 y Dose in mrad:  Voltage Drop  32 42 40	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4 23.6
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821 SHD 912  DPR07	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fel Start Date and Time  3/29/16 12:07 3/29/16 12:07 3/29/16 12:07  East Fence Mid Start Date and	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl  nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17 Average Quarterl  Finish Date and	Voltage Drop  47  46  38  y Dose in mrad:  Voltage Drop  32  42  40  y Dose in mrad:	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4 23.6 22.3  Quarterly Dose
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821 SHD 912  DPR07  Electret ID	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fer Start Date and Time  3/29/16 12:07 3/29/16 12:07 3/29/16 12:07  East Fence Mid Start Date and Time	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17 Average Quarterl  Finish Date and Time  Finish Date and Time	Voltage Drop  47 46 38 y Dose in mrad:  Voltage Drop  32 42 40 y Dose in mrad:	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4 23.6 22.3  Quarterly Dose Normalized
Electret ID SIR 449 SHC 816 SHC 657  DPR06  Electret ID SHC 761 SHC 821 SHD 912  DPR07  Electret ID SHC 674	Start Date and Time  6/28/16 12:55 6/28/16 12:56 6/28/16 12:57  Far Southeast Fer Start Date and Time  3/29/16 12:07 3/29/16 12:07 3/29/16 12:07  East Fence Mid Start Date and Time  6/28/16 13:02	ence Corner Finish Date and Time  9/30/16 12:15 9/30/16 12:15 9/30/16 12:15 Average Quarterl  nce Corner Finish Date and Time  7/1/16 13:17 7/1/16 13:17 Average Quarterl  Finish Date and Time  Finish Date and Time  9/30/16 12:25	Voltage Drop  47  46  38  y Dose in mrad:  Voltage Drop  32  42  40  y Dose in mrad:  Voltage Drop  47	Quarterly Dose Normalized  25.2 26.2 21.4 24.3  Quarterly Dose Normalized  18.9 24.4 23.6 22.3  Quarterly Dose Normalized

**Average Quarterly Dose in mrad:** 

26.6

DPR08	Northeast Fence Corner - Canister damaged			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 763	6/28/16 13:06	9/30/16 12:28	54	30.2
SHC 760	6/28/16 13:07	9/30/16 12:28	58	32.4
SHD 974	6/28/16 13:08	9/30/16 12:28	63	34.9
		Average Quarterl	y Dose in mrad:	32.5

DPR09	North-Northeast I			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHV205	6/28/16 13:11	9/30/16 12:31	45	26.4
SHC 850	6/28/16 13:12	9/30/16 12:31	33	18.3
SHC 647	6/28/16 13:13	9/30/16 12:31	42	23.8
		Average Quarterl	y Dose in mrad:	22.9

DPR10	North Fence Salt			
	Start Date and	Finish Date and		Quarterly Dose
 Electret ID	Time	Time	Voltage Drop	Normalized
SHC 658	6/28/16 13:19	9/30/16 12:35	45	26.9
SHC 765	6/28/16 13:19	9/30/16 12:35	46	27.3
SHC 793	6/28/16 13:21	9/30/16 12:35	39	23.7
		Average Quarterl	v Dose in mrad:	26.0

DPF	R11	Northwest Fence Corner				
		Start Date and	Finish Date and		Quarterly Dose	
Ele	ctret ID	Time	Time	Voltage Drop	Normalized	
S	GJ 083	6/28/16 13:25	9/30/16 12:40	36	21.2	
S	GJ 042	6/28/16 13:27	9/30/16 12:40	38	22.6	
S	GI 986	6/28/16 13:27	9/30/16 12:40	40	23.8	
			Average Quarterl	v Dose in mrad:	22.6	

DPR12	Waste Handling E			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 769	6/28/16 13:30	9/30/16 12:42	67	37.6
SHC 722	6/28/16 13:30	9/30/16 12:42	45	25.5
SHC 705	6/28/16 13:31	9/30/16 12:42	47	26.8
		Average Quarterl	y Dose in mrad:	30.0

DPR13	Waste Handling E			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 653	6/28/16 13:34	9/30/16 12:44	50	28.7
SGI 997	6/28/16 13:34	9/30/16 12:44	37	21.9
SIR 478	6/28/16 13:35	9/30/16 12:44	45	24.6
		Average Quarterl	y Dose in mrad:	25.1

DPR14	Waste Handling B	uilding Loading D	ock (East)	
2	Start Date and	Finish Date and	- (_u.,	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 842	6/28/16 13:39	9/30/16 12:50	54	30.9
SHC 716	6/28/16 13:39	9/30/16 12:50	43	24.2
SHC 708	6/28/16 13:40	9/30/16 12:50	49	27.8
		Average Quarterl	y Dose in mrad:	27.6
DPR16	Loving Weigh Stat	tion		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 675	6/28/16 13:44	9/30/16 12:53	53	29.8
SHC 696	6/28/16 13:45	9/30/16 12:53	47	26.2
SHC 740	6/28/16 13:47	9/30/16 12:53	45	26.7
		Average Quarterl	y Dose in mrad:	27.6
DPR17	Malaga Volunteer	Fire Department		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHD 964	6/28/16 13:51	9/30/16 13:00	62	34.2
SIR 440	6/28/16 13:51	9/30/16 13:00	46	24.8
SIR 641	6/28/16 13:52	9/30/16 13:00	49	26.5
		Average Quarterl	y Dose in mrad:	28.5
DPR18	Hobbs Hwy / Nortl	n Access Rd		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Start Date and Time	Finish Date and Time	Voltage Drop	Normalized
Electret ID SHC 839	Start Date and Time 6/28/16 13:59	Finish Date and Time 9/30/16 13:06	92	Normalized 52.4*
Electret ID SHC 839 SHC 687	Start Date and Time 6/28/16 13:59 6/28/16 13:59	Finish Date and Time 9/30/16 13:06 9/30/16 13:06	92 55	Normalized 52.4* 30.7
Electret ID SHC 839	Start Date and Time 6/28/16 13:59	Finish Date and Time 9/30/16 13:06	92	Normalized 52.4* 30.7 36.0
Electret ID SHC 839 SHC 687	Start Date and Time 6/28/16 13:59 6/28/16 13:59	Finish Date and Time 9/30/16 13:06 9/30/16 13:06	92 55 64	Normalized 52.4* 30.7
Electret ID SHC 839 SHC 687	Start Date and Time 6/28/16 13:59 6/28/16 13:59	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl	92 55 64	Normalized 52.4* 30.7 36.0
Electret ID SHC 839 SHC 687 SHC 745	Start Date and Time 6/28/16 13:59 6/28/16 13:59 6/28/16 14:00	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl	92 55 64 <b>y Dose in mrad</b> :	Normalized 52.4* 30.7 36.0
Electret ID SHC 839 SHC 687 SHC 745	Start Date and Time 6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl	92 55 64	Normalized 52.4* 30.7 36.0 39.7
SHC 839 SHC 687 SHC 745	Start Date and Time 6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and	92 55 64 <b>y Dose in mrad</b> :	52.4* 30.7 36.0 39.7  Quarterly Dose
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID	Start Date and Time 6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time	92 55 64 <b>y Dose in mrad:</b> Voltage Drop	Normalized 52.4* 30.7 36.0 39.7  Quarterly Dose Normalized
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971	Start Date and Time  6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time 6/28/16 14:02	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time  9/30/16 13:09	92 55 64 y Dose in mrad: Voltage Drop 56	Normalized 52.4* 30.7 36.0 39.7  Quarterly Dose Normalized 31.8
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195	Start Date and Time  6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time  6/28/16 14:02 6/28/16 14:03	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time  9/30/16 13:09  9/30/16 13:09	92 55 64 <b>y Dose in mrad:</b> Voltage Drop 56 53 60	Normalized 52.4* 30.7 36.0 39.7  Quarterly Dose Normalized 31.8 29.9
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195	Start Date and Time  6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time  6/28/16 14:02 6/28/16 14:03 6/28/16 14:04  NMED Guadalupe	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time  9/30/16 13:09  9/30/16 13:09  9/30/16 13:09  Average Quarterl  St. Office Interior	92 55 64 y Dose in mrad: Voltage Drop 56 53 60 y Dose in mrad:	Normalized  52.4* 30.7 36.0 39.7  Quarterly Dose Normalized  31.8 29.9 33.1 31.6
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195 SIR 650  DPR20	Start Date and Time  6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time  6/28/16 14:02 6/28/16 14:03 6/28/16 14:04  NMED Guadalupe Start Date and	Finish Date and Time  9/30/16 13:06 9/30/16 13:06 9/30/16 13:06 Average Quarterl  Finish Date and Time  9/30/16 13:09 9/30/16 13:09 9/30/16 13:09 Average Quarterl  St. Office Interior Finish Date and	92 55 64 y Dose in mrad: Voltage Drop 56 53 60 y Dose in mrad:	S2.4* 30.7 36.0 39.7  Quarterly Dose Normalized  31.8 29.9 33.1 31.6  Quarterly Dose
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195 SIR 650  DPR20  Electret ID	Start Date and Time 6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time 6/28/16 14:02 6/28/16 14:03 6/28/16 14:04  NMED Guadalupe Start Date and Time	Finish Date and Time  9/30/16 13:06 9/30/16 13:06 9/30/16 13:06 Average Quarterl  Finish Date and Time  9/30/16 13:09 9/30/16 13:09 9/30/16 13:09 Average Quarterl  St. Office Interior Finish Date and Time	92 55 64 y Dose in mrad: Voltage Drop 56 53 60 y Dose in mrad:	Normalized  52.4* 30.7 36.0 39.7  Quarterly Dose Normalized  31.8 29.9 33.1 31.6  Quarterly Dose Normalized
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195 SIR 650  DPR20  Electret ID SHC 656	Start Date and Time  6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time  6/28/16 14:02 6/28/16 14:03 6/28/16 14:04  NMED Guadalupe Start Date and Time  7/1/16 14:18	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time  9/30/16 13:09  9/30/16 13:09  9/30/16 13:09  Average Quarterl  St. Office Interior Finish Date and Time  9/30/16 13:12	92 55 64 y Dose in mrad: Voltage Drop 56 53 60 y Dose in mrad: Voltage Drop 50	Normalized  52.4* 30.7 36.0 39.7  Quarterly Dose Normalized  31.8 29.9 33.1 31.6  Quarterly Dose Normalized
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195 SIR 650  DPR20  Electret ID SHC 656 SHC 691	Start Date and Time 6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time 6/28/16 14:02 6/28/16 14:03 6/28/16 14:04  NMED Guadalupe Start Date and Time 7/1/16 14:18 7/1/16 14:18	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time  9/30/16 13:09  9/30/16 13:09  Average Quarterl  St. Office Interior Finish Date and Time  9/30/16 13:12  9/30/16 13:12	92 55 64 y Dose in mrad: Voltage Drop 56 53 60 y Dose in mrad: Voltage Drop 50 55	Solution Normalized  52.4* 30.7 36.0 39.7  Quarterly Dose Normalized  31.8 29.9 33.1 31.6  Quarterly Dose Normalized  28.2 31.2
Electret ID SHC 839 SHC 687 SHC 745  DPR19  Electret ID SHD 971 SHV195 SIR 650  DPR20  Electret ID SHC 656	Start Date and Time  6/28/16 13:59 6/28/16 13:59 6/28/16 14:00  Southeast Control Start Date and Time  6/28/16 14:02 6/28/16 14:03 6/28/16 14:04  NMED Guadalupe Start Date and Time  7/1/16 14:18	Finish Date and Time  9/30/16 13:06  9/30/16 13:06  9/30/16 13:06  Average Quarterl  Finish Date and Time  9/30/16 13:09  9/30/16 13:09  9/30/16 13:09  Average Quarterl  St. Office Interior Finish Date and Time  9/30/16 13:12	92 55 64 y Dose in mrad: Voltage Drop 56 53 60 y Dose in mrad: Voltage Drop 50	Normalized  52.4* 30.7 36.0 39.7  Quarterly Dose Normalized  31.8 29.9 33.1 31.6  Quarterly Dose Normalized

DPR21	NMED Guadalup			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 774	7/1/16 14:20	9/30/16 13:17	49	27.7
SHC 785	7/1/16 14:20	9/30/16 13:17	51	29.5
SHC 709	7/1/16 14:20	9/30/16 13:17	55	32.1
		Average Quarterl	v Dose in mrad:	29.8

DPR22	Seven Rivers - Ca	anister not retrieved	d	
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 522	7/7/16 15:09			
SIR 445	7/7/16 15:09			
SIR 457	7/7/16 15:09			
		Average Quarterly	v Dose in mrad:	

DPR23	Loop Rd			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 466	7/7/16 15:12	9/30/16 13:24	55	33.7
SIR 501	7/7/16 15:12	9/30/16 13:24	50	30.5
SIR 656	7/7/16 15:12	9/30/16 13:24	52	31.7
		Average Quarterl	y Dose in mrad:	32.0

DPR24	South Access Rd - Canister found on ground				
	Start Date and	Finish Date and		Quarterly Dose	
Electret ID	Time	Time	Voltage Drop	Normalized	
SIR 557	7/7/16 15:15	9/30/16 13:27	53	32.3	
SIR 454	7/7/16 15:15	9/30/16 13:27	62	38.2	
SIR 752	7/7/16 15:15	9/30/16 13:27	61	37.3	
Average Quarterly Dose in mrad:			35.9		

DPR25	Jal Hwy			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 568	7/7/16 15:18	9/30/16 13:29	53	32.1
SIR 738	7/7/16 15:18	9/30/16 13:29	54	32.7
SIR 525	7/7/16 15:18	9/30/16 13:29	46	27.8
		Average Quarterl	y Dose in mrad:	30.9

## CY2016 Fourth Quarter:

DPR01	Parking Lot Entra	ince		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 650	9/28/16 14:02	1/12/17 11:00	100	49.9*
SHC 659	9/28/16 14:02	1/12/17 11:00	51	25.3
SHC 726	9/28/16 14:02	1/12/17 11:00	53	26.6
Average Quarterly Dose in mrad:			33.9	

DPR02	Railroad Track En			0 1 1 5
Flootrot ID	Start Date and	Finish Date and	Valtara Dran	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 754	9/28/16 14:05	1/12/17 11:04	51	25.8
SHC 835	9/28/16 14:05	1/12/17 11:04	54	26.7
SHC 856	9/28/16 14:05	1/12/17 11:04	49	24.7
		Average Quarterl	y Dose in mrad:	25.8
DPR03	Southwest Fence	Corner		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHD 931	9/28/16 14:09	1/12/17 11:07	59	27.9
SHV 185	9/28/16 14:09	1/12/17 11:07	57	27.2
SHD 960	9/28/16 14:09	1/12/17 11:07	58	27.9
		Average Quarterl	y Dose in mrad:	27.7
DPR04	South Fence Cent	ter		
Di ito-	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 550	9/28/16 14:11	1/12/17 11:11	52	24.3
SHC 768	9/28/16 14:11	1/12/17 11:11	51	25.9
SHC 771	9/28/16 14:11	1/12/17 11:11	58	28.8
0110 171	0/20/10 11:11			26.3
		Average Quarterl	y Dose III IIIIau.	20.3
DPR05	Near Southeast Fo			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGJ 044	9/28/16 14:17	1/12/17 11:16	44	22.4
SGJ 109	9/28/16 14:17	1/12/17 11:16	44	22.5
SHC 688	9/28/16 14:17	1/12/17 11:16	47	23.7
		Average Quarterl	y Dose in mrad:	22.9
DPR06	Far Southeast Fer	nce Corner		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 761	9/28/16 14:22	1/12/17 11:29	52	25.4
SHC 821	9/28/16 14:22	1/12/17 11:38	49	23.3
SHD 912	9/28/16 14:22	1/12/17 11:38	56	26.6
		Average Quarterl	y Dose in mrad:	25.1
DDD67	Foot Force Mill			
DPR07	East Fence Mid	EURI B. C. C.		Occupation 5
Electrot ID	Start Date and	Finish Date and	Voltage Dres	Quarterly Dose Normalized
Electret ID	Time	Time	Voltage Drop	
SHC 694	9/28/16 14:25	1/12/17 11:40	53 57	25.1
SHC 853	9/28/16 14:25	1/12/17 11:40	57 57	27.2
SHD 962	9/28/16 14:25	1/12/17 11:40	57	27.1
		Average Quarterl	v Dose in mrad:	26.5

DPR08	Northeast Fence			0 1 1 5
Electret ID	Start Date and Time	Finish Date and Time	Voltage Drop	Quarterly Dose Normalized
SHC 686	9/28/16 14:27	1/12/17 11:44	58	28.8
SHD 942	9/28/16 14:27	1/12/17 11:44 1/12/17 11:44	60	28.5
SHV 211	9/28/16 14:27	1/12/17 11:44	59	28.8
3117 211	9/20/10 14.27			28.7
		Average Quarterl	y Dose in mrad:	20.1
DPR09	North-Northeast I	Fence		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 830	9/28/16 14:30	1/12/17 11:47	51	24.4
SHD 939	9/28/16 14:30	1/12/17 11:47	54	25.8
SHD 954	9/28/16 14:30	1/12/17 11:47	57	27.0
		Average Quarterl	y Dose in mrad:	25.8
DPR10	North Fence Salt	Pile		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SGI 957	9/28/16 14:33	1/12/17 11:51	42	21.3
SHC 689	9/28/16 14:33	1/12/17 11:51	54	27.1
SHC 778	9/28/16 14:33	1/12/17 11:51	54	27.2
		Average Quarterl	y Dose in mrad:	25.2
DPR11	Northwest Fence	Corner		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 702	9/28/16 14:35	1/12/17 11:59	49	22.9
SHC 678	9/28/16 14:35	1/12/17 11:59	41	17.4
SIR 670	9/28/16 14:35	1/12/17 11:59	48	18.8
		Average Quarterl	y Dose in mrad:	19.7
DPR12	Waste Handling E	Building Loading D	ock (West)	
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 644	9/28/16 14:40	1/12/17 12:06	51	25.1
SHC 745	9/28/16 14:40	1/12/17 12:06	52	25.9
SHC 777	9/28/16 14:40	1/12/17 12:06	58	29.4
		Average Quarterl	y Dose in mrad:	26.8
DPR13	Waste Handling Building Loading Dock (Center)			
	Start Date and	Finish Date and	•	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 672	9/28/16 14:42	1/12/17 12:10	54	26.9
SHC 799	9/28/16 14:42	1/12/17 12:10	47	23.1
SHC 863	9/28/16 14:42	1/12/17 12:10	50	24.8
		Avanaga Overstani	y Dose in mrad:	24.9

DPR14	Waste Handling Bu	ilding Loading De	ock (East)	
2	Start Date and	Finish Date and	- (_u.u.,	Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 645	9/28/2016 14:45	1/12/2017 12:13	49	24.0
SHC 715	9/28/2016 14:45	1/12/2017 12:13	46	22.7
SHC 849	9/28/2016 14:45	1/12/2017 12:13	49	24.2
		Average Quarterl	y Dose in mrad:	23.7
DPR16	Loving Weigh Stati	on		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHC 724	9/28/2016 14:47	1/12/2017 12:17	72	34.4
SHC 725	9/28/2016 14:47	1/12/2017 12:17	66	32.4
SHV 169	9/28/2016 14:47	1/12/2017 12:17	61	28.9
		Average Quarterl	y Dose in mrad:	31.9
DPR17	Malaga Volunteer F	=		
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SHD 893	9/28/2016 14:49	1/12/2017 12:20	60	28.1
SHD 895	9/28/2016 14:49	1/12/2017 12:20	54	25.8
SHD 916	9/28/2016 14:49	1/12/2017 12:20	74	34.8
		Average Quarterly	y Dose in mrad:	29.6
DPR18	Hobbs Hwy / North	Access Rd		
_	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Start Date and Time	Finish Date and Time	Voltage Drop	Normalized
Electret ID SHC 744	Start Date and Time 9/28/2016 14:52	Finish Date and Time 1/12/2017 12:24	72	Normalized 34.2
Electret ID SHC 744 SHD 928	Start Date and Time  9/28/2016 14:52  9/28/2016 14:52	Finish Date and Time 1/12/2017 12:24 1/12/2017 12:24	72 59	Normalized 34.2 27.9
Electret ID SHC 744	Start Date and Time 9/28/2016 14:52	Finish Date and Time 1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24	72 59 64	Normalized 34.2 27.9 30.9
Electret ID SHC 744 SHD 928	Start Date and Time  9/28/2016 14:52  9/28/2016 14:52	Finish Date and Time 1/12/2017 12:24 1/12/2017 12:24	72 59 64	Normalized 34.2 27.9
Electret ID SHC 744 SHD 928	Start Date and Time  9/28/2016 14:52  9/28/2016 14:52	Finish Date and Time 1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24	72 59 64	Normalized 34.2 27.9 30.9
Electret ID SHC 744 SHD 928 SHD 983	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52	Finish Date and Time 1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24	72 59 64	Normalized 34.2 27.9 30.9
Electret ID SHC 744 SHD 928 SHD 983	Start Date and Time  9/28/2016 14:52  9/28/2016 14:52  9/28/2016 14:52  Southeast Control	Finish Date and Time 1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24 Average Quarterly	72 59 64	Normalized  34.2 27.9 30.9 31.0
Electret ID SHC 744 SHD 928 SHD 983  DPR19	Start Date and Time  9/28/2016 14:52  9/28/2016 14:52  9/28/2016 14:52  Southeast Control Start Date and	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and	72 59 64 <b>y Dose in mrad</b> :	34.2 27.9 30.9 <b>31.0</b> Quarterly Dose
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time	72 59 64 y Dose in mrad: Voltage Drop	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29	72 59 64 y Dose in mrad: Voltage Drop 59	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29	72 59 64 <b>y Dose in mrad:</b> Voltage Drop 59 41 60	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659 SHC 726	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54 9/28/2016 14:54	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29 1/12/2017 12:29 Average Quarterly	72 59 64 y Dose in mrad: Voltage Drop 59 41 60 y Dose in mrad:	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9 28.2
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29 1/12/2017 12:29 Average Quarterly	72 59 64 y Dose in mrad: Voltage Drop 59 41 60 y Dose in mrad:	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9 28.2 25.6
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659 SHC 726	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54 9/28/2016 14:54  NMED Guadalupe	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29 1/12/2017 12:29 Average Quarterly  St. Office Interior	72 59 64 y Dose in mrad: Voltage Drop 59 41 60 y Dose in mrad:	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9 28.2
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659 SHC 726  DPR20	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54 9/28/2016 14:54  NMED Guadalupe Start Date and	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29 1/12/2017 12:29 Average Quarterly  St. Office Interior Finish Date and	72 59 64 y Dose in mrad: Voltage Drop 59 41 60 y Dose in mrad:	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9 28.2 25.6  Quarterly Dose
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659 SHC 726  DPR20  Electret ID	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54 9/28/2016 14:54  NMED Guadalupe Start Date and Time	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29 1/12/2017 12:29 Average Quarterly  St. Office Interior Finish Date and Time	72 59 64  y Dose in mrad:  Voltage Drop 59 41 60 y Dose in mrad:  Voltage Drop	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9 28.2 25.6  Quarterly Dose Normalized
Electret ID SHC 744 SHD 928 SHD 983  DPR19  Electret ID SIR 715 SHC 659 SHC 726  DPR20  Electret ID SHC 751	Start Date and Time  9/28/2016 14:52 9/28/2016 14:52 9/28/2016 14:52  Southeast Control Start Date and Time  9/28/2016 14:54 9/28/2016 14:54 9/28/2016 14:54  NMED Guadalupe Start Date and Time  9/30/2016 13:12	Finish Date and Time  1/12/2017 12:24 1/12/2017 12:24 1/12/2017 12:24  Average Quarterly  Finish Date and Time  1/12/2017 12:29 1/12/2017 12:29 1/12/2017 12:29 Average Quarterly  St. Office Interior Finish Date and Time  1/12/2017 12:31	72 59 64  y Dose in mrad:  Voltage Drop 59 41 60 y Dose in mrad:  Voltage Drop 100	Normalized  34.2 27.9 30.9 31.0  Quarterly Dose Normalized  27.7 20.9 28.2 25.6  Quarterly Dose Normalized  50.5*

DPR21	NMED Guadalupe	e St. Office Exterio	r	
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 543	9/30/2016 13:17	1/12/2017 12:35	51	24.2
SHD 692	9/30/2016 13:17	1/12/2017 12:35	54	26.4
SHD 979	9/30/2016 13:17	1/12/2017 12:35	60	29.6
		Average Quarterl	y Dose in mrad:	26.7
DPR22	Seven Rivers			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
Station Inactiv	e due to theft.			
		Average Quarterl	y Dose in mrad:	
DPR23	Loop Rd			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 628	9/28/16 15:26	1/12/17 12:37	44	20.3
SIR 551	9/28/16 15:26	1/12/17 12:37	64	29.7
SIR 735	9/28/16 15:26	1/12/17 12:37	52	24.0
		Average Quarterl	y Dose in mrad:	24.7
	South Access			
DPR24	Rd			
DFR24	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 450	9/28/16 15:29	1/12/17 12:44	47	21.8
SIR 710	9/28/16 15:29	1/12/17 12:44	52	24.1
SIR 438	9/28/16 15:29	1/12/17 12:44	54	25.1
0117 400	3/20/10 13.23	., . =, =	•	23.7
		Average Quarterl	y Dose in mrau:	23.7
DPR25	Jal Hwy			
	Start Date and	Finish Date and		Quarterly Dose
Electret ID	Time	Time	Voltage Drop	Normalized
SIR 648	9/28/16 15:32	1/12/17 12:47	49	22.5
SIR 639	9/28/16 15:32	1/12/17 12:47	59	27.3
SIR 451	9/28/16 15:32	1/12/17 12:47	46	21.1
		Average Quarterl	y Dose in mrad:	23.6