

UPSA 2017

Electrical Safety Round Table

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Leader Public Safety











What Actions did we take?

- Met with 40 city/county planning & development groups throughout the 11 of 15 counties in Arizona that we serve to explain the concerns of zero lot line encroachments being issued where overhead/underground facilities are located.
- Asked the city/county/developers to Notify Public Safety publicsafety@aps.com when plans of any multi story structures are going to be constructed closer than 15 feet from overhead facilities or near underground equipment devices.
- Provide on site consultation with developers before construction begins to identify conflicts.

- 1) APS surpassed 1 Gigawatt of Solar on our system in 2016, first utility outside of California to achieve this target.**
- 2) Most recently added the 40 Megawatt Red Rock Solar Plant to our system in late 2016.**
- 3) Currently have over 50,000 roof top solar installations operating on our system.**



Substations and First Responders



What are we doing?

	Q1	Q2	Q3	Q4	Total	2016 Metric
Public Safety Electrical Safety Outreach presentations 105 including 22 Damage Prevention seminars plus 42 Electrical Safety Trailer Demonstrations performed by T&D.	1845	746	1875	1208	5674	5500
Substation Security and Public Safety Field Inspections – T&D inspects approximately 420 operating substations on a monthly basis.	118	34	7	5	164	150 (By end of Q2)
TD-SH-PRD-2001 (T&D overhead line patrol audits start in Q3) Overhead lines are patrolled annually by T&D	0	367	1042	542	1951	1951

Other functions we oversee in our Public Safety Group.

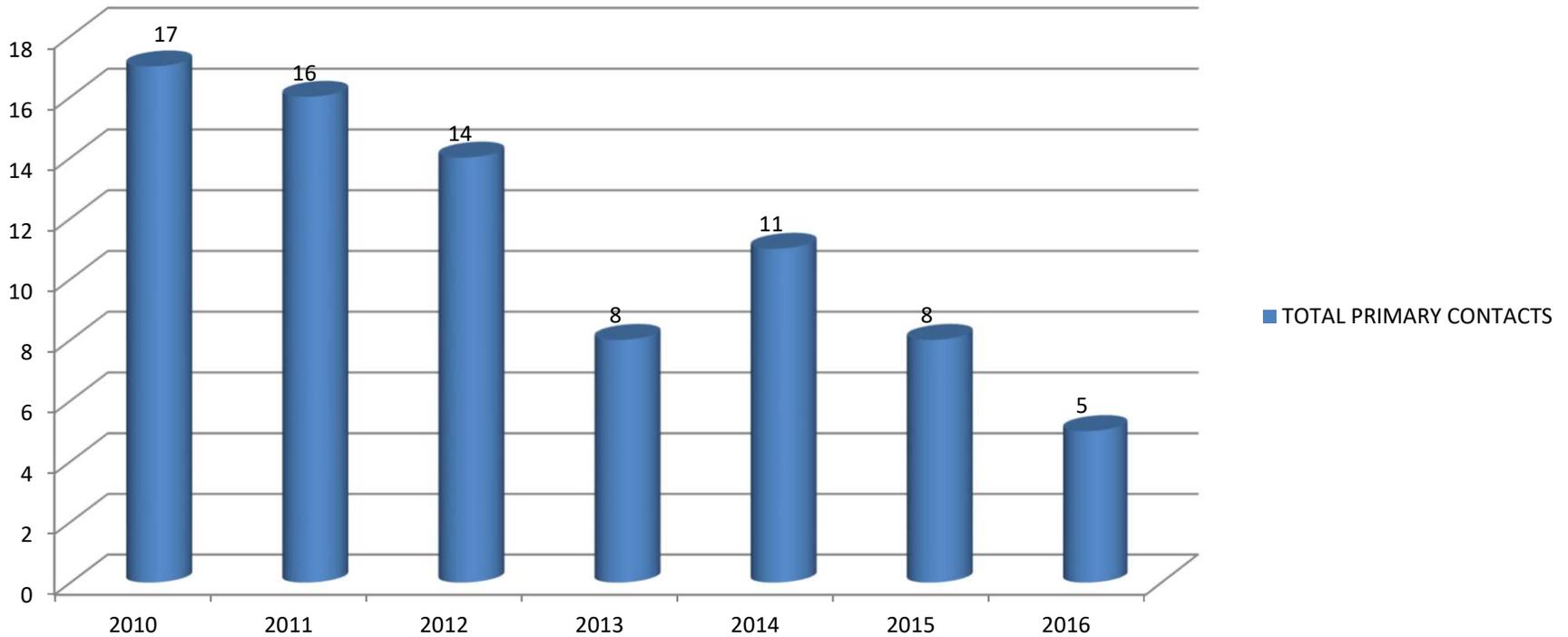
	Q1	Q2	Q3	Q4	2016	2015
ADOT Oversize Load Requests	4	1	5	4	14	56
ROW / Easement Encroachment Issues	18	31	25	14	88	19
Public Safety Field Investigations	65	100	75	45	285	215
OSHA Crane / Derrick Field Related Operating Issues	5	7	11	5	28	16

Damages to Overhead Facilities

	Q1	Q2	Q3	Q4	2016	2015
Overhead Power Line (ARS Violation greater than 600V)	0	3	1	1	5	8
Overhead Damages to Secondary and Service Lines	4	1	3	1	9	11
Overhead Damages due to Communication Line Contacts	4	4	1	0	9	13

Damages to the Overhead Electric System is trending down.

**TOTAL OVERHEAD LINE CONTACTS ABOVE 600V
(ARS 6.4 40-360.41-45 violations)**



Any Questions?

