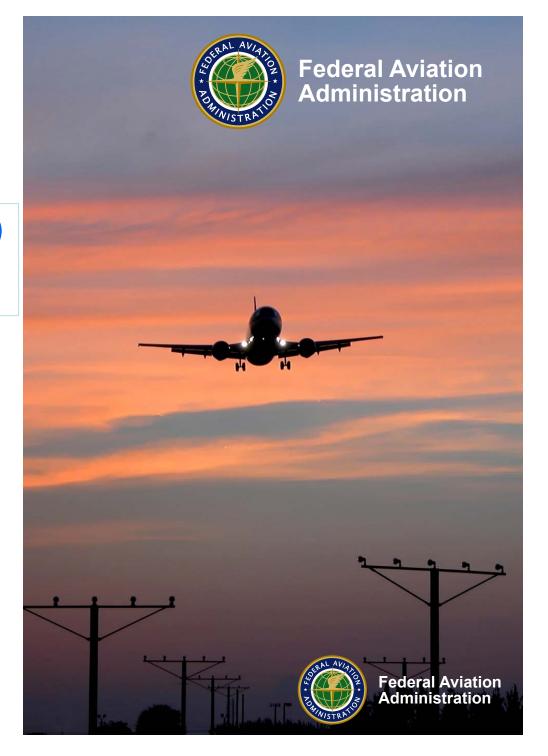
Airport Safety Database Query:

Light Emitting Diode (LED) Issues Dated April 4, 2016

Presented to: IESALC

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Purpose

- → Because of the mainly anecdotal remarks that have been made at various venues concerning LEDs, In March 2016, the FAA's Airport Safety R&D section conducted a search of the FAA Safety Database to determine if reports could be found regarding LEDs at airports.
- > The database sources used included:
 - 1. National Aeronautics and Space Administration (NASA)
 - 2. Aviation Safety Reporting System (ASRS)
 - 3. National Transportation Safety Board's (NTSB) Aviation Accident and Incident Data System
 - 4. FAA Accident and Incident Data Systems (AIDS).
- → The time period studied was October 1, 2005 through February, 2016.



Results

→ In total, 88056 reports occurring between October, 2005 and February, 2016 were searched for issues related to LEDs.

Data Source	Total Reports	Most Recent Data Available	Total Reports Found
ASRS	55459	JAN-16	20
NTSB	18353	25-FEB-16	1
AIDS	14244	20-FEB-16	1
Total	88056	N/A	22



Summary

- → In total, 88056 reports occurring between October, 2005 and February, 2016 were searched for issues related to LEDs.
- → Of these reports, 22 mentioned of concerns about LED lighting, excessive brightness of lights, or other similar lighting issues. 2014 was the peak year for reports regarding LED lighting, with seven reports. Calendar year 2015 had fewer than half the number of reports concerning airport lighting issues.

Year	# Reports Found	
2006	3	
2007	2	
2008	0	
2009	1	
2010	0	
2011	2	
2012	1	
2013	1	
2014	7	
2015	3	
2016 (Jan.)	0	



Conclusion

→ The number of reports and incidents of LED lighting issues have been low in number to date; however, the FAA will continue tracking this issue to ensure safety is maintained going forward.

→ Although the number from this effort, is small, we are planning to analyze the reports to determine what action is needed.

