

Report No. <u>12167</u> Date: <u>04/06/10</u>

Fuel Reduction Pilot Program

CONDUCTED AT

HOLLAND TUNNEL TOLL PLAZA

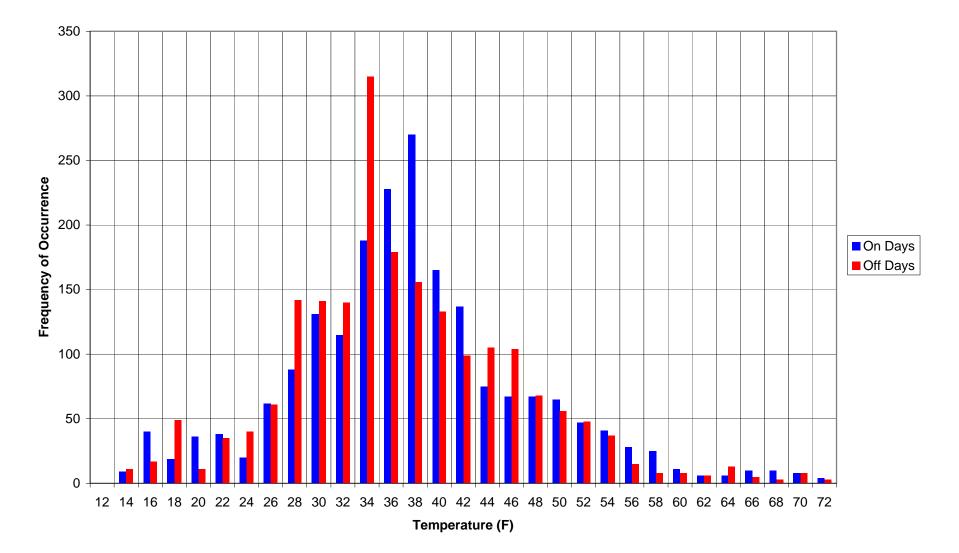
FOR

Port Authority of New York & New Jersey

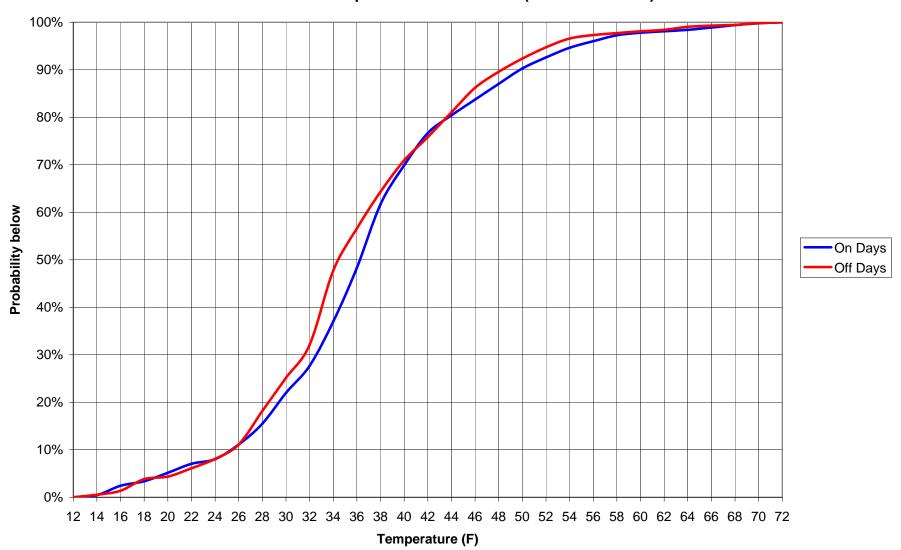
TEST RESULTS For HOT-WATER BOILERS

> A Confidential Report Prepared by Intellidyne LLC

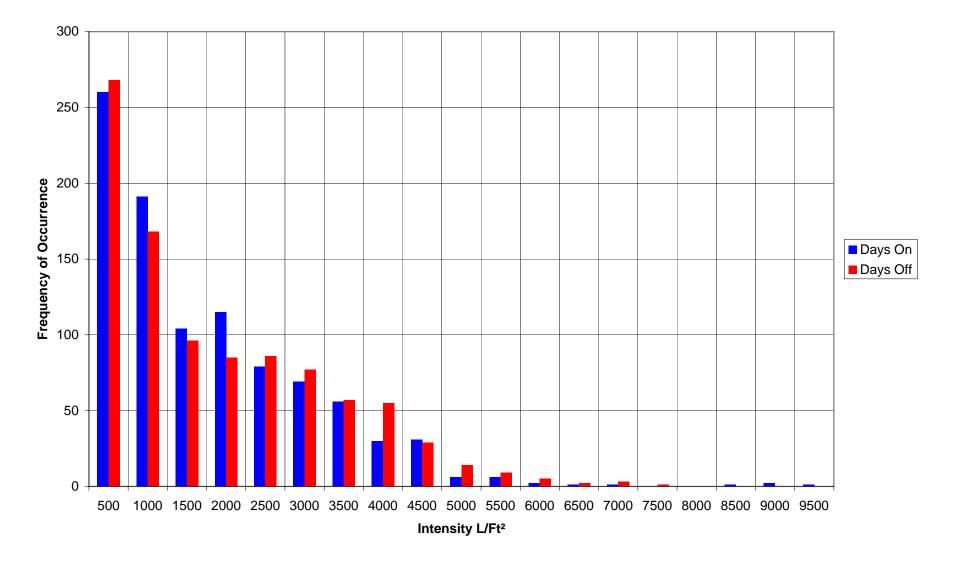
Intellidyne	90 Pratt Oval Glen Cove, NY 11542 Phone:516-676-0777 Fax: 516-676-2640	ſ	'est	⊔ Report No.	12167
Customer: The Port Authority of NY & NJ 225 Park Ave. South New York, NY 10003		Test Site Locati Holland Tunn	-	Date	. 04/06/10
		REFRIGERATION	OTHER: OTHER: Date: 01/27/10 Date: 03/09/10]	
	ter & Toll Booth Heating ✓ in HRS. RUN-TIME was re	No. of Days in	BURNER I	JSAGE FACTOF On-Days: 13% Off-Days: 15%	6
HEATING DEGREE-DAYS (FOR TEST F IntelliCon ON-DAYS: 866 IntelliCon OFF-DAYS: 885 ====== Total Degree-Days: 1751	PERIOD) It was 2.1%	Warmer on the On-Days.		PER DEGREE- AYS: 0:13:4 AYS: 0:15:20	4
SOLAR LOAD COMPENSATION: (Lum IntelliCon ON-DAYS: 1441159 IntelliCon OFF-DAYS: 1555520	ens/Sq. Ft.) It was 7.35%	Sunnier on the OFF-Days.	Boiler #1 RT: CYCLES:	73:09:42 932	Data OFF-DAY 95:28:13 1591
BURNER CYCLING REDUCTION: IntelliCon ON-DAYS: 2065 IntelliCon OFF-DAYS: 3182 Adi Savings - 11 23%	Cycling was r	educed by: 35.1%	Boiler #2 RT: CYCLES:	124:59:10	132:37:30 1591
publicly available data correlation between S sunnier on the "OFF" and depicted through	-Day and Solar influence da Even though it was 7.35% olar influence and Runtime. days, compensation would h	ta was gathered with on-site sunnier on the OFF-Days, ar Thus, Solar influence was no have yielded increased saving d probability charts. These ch ss of 11% savings.	nalysis of the data of compensated fo gs. Temperature n	resulted in very r. If it was, and s naintenance is do	little since it was ocumented



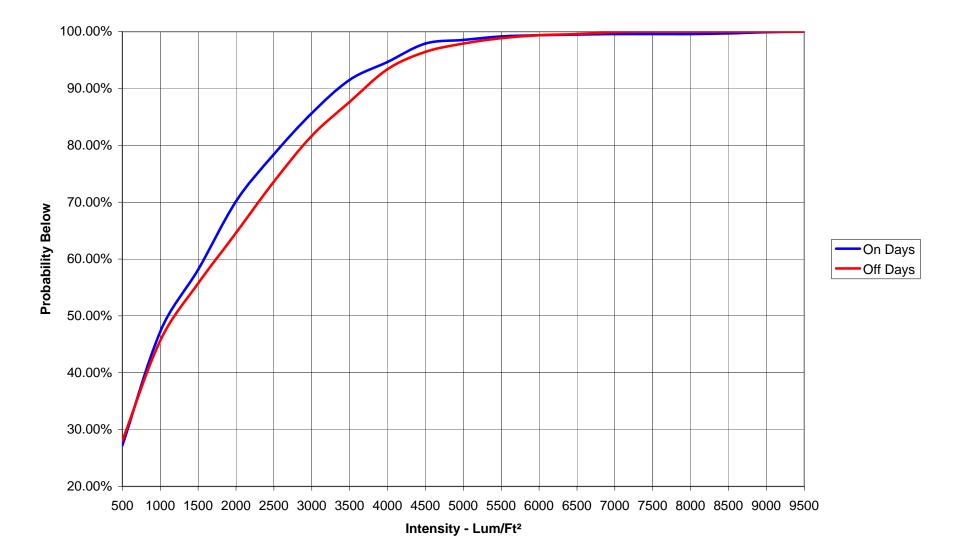
The Port Authority of NY & NJ Holland Tunnel Toll Plaza Outside Air Temperature Histogram (1/27/10 - 3/09/10)



The Port Authority of NY & NJ Holland Tunnel Toll Plaza Outside Air Temperature Probabilities (1/27/10 - 3/09/10)

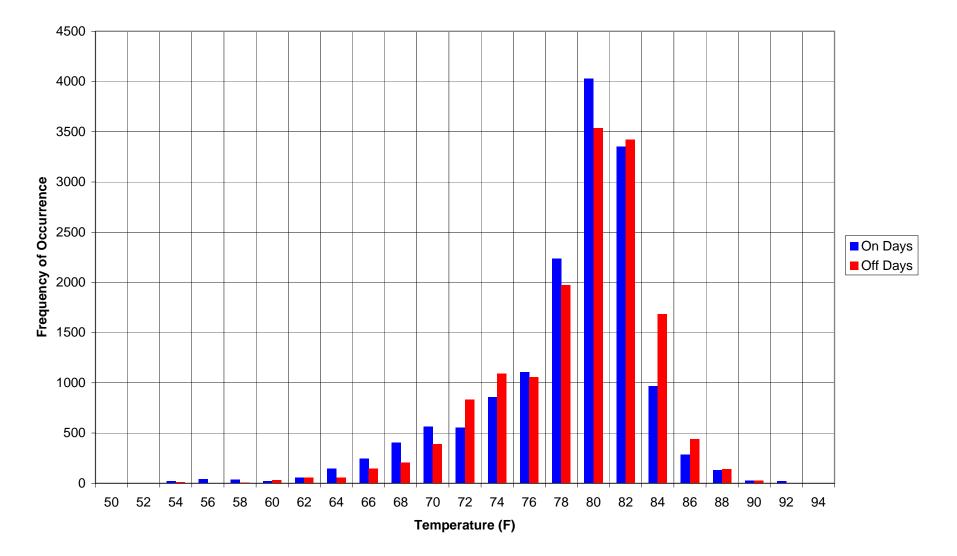


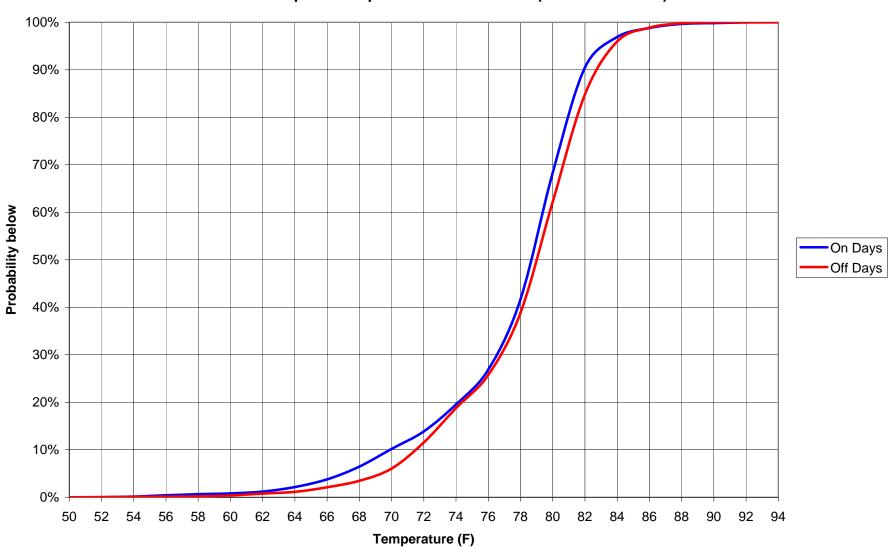
The Port Authority of NY & NJ Holland Tunnel Toll Plaza Solar Influence Histogram (1/27/10 - 3/09/10)



The Port Authority of NY & NJ Holland Tunnel Toll Plaza Solar Influence Probabilities (1/27/10 - 3/09/10)

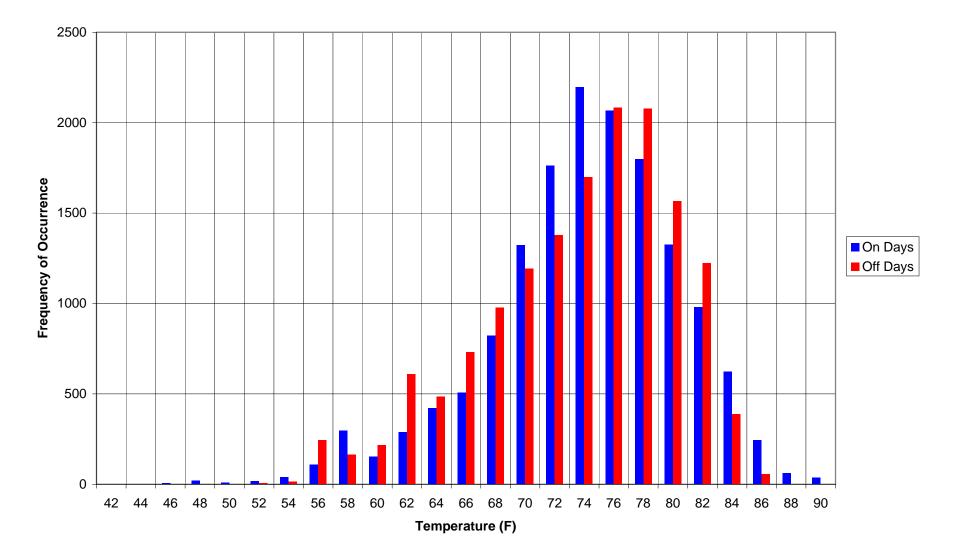


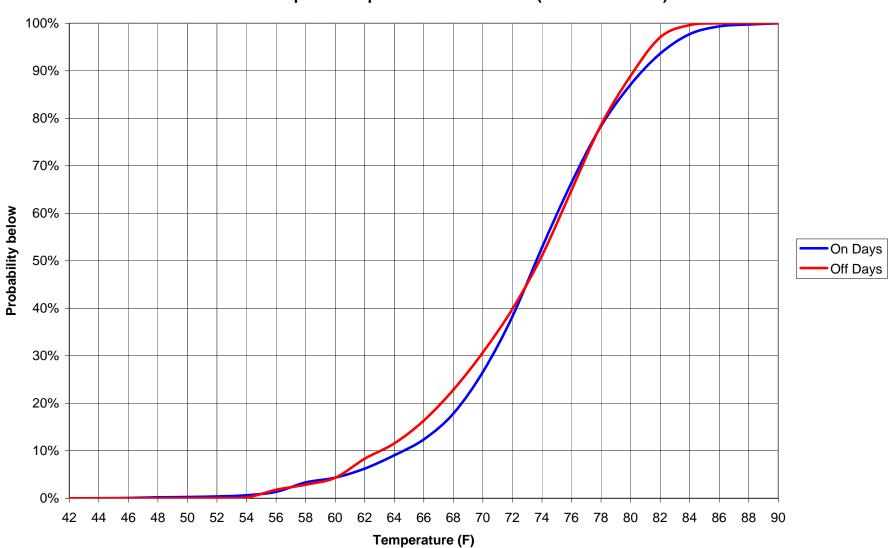




The Port Authority of NY & NJ Holland Tunnel Toll Plaza Booth #8 Space Temperature Probabilities (1/27/10 - 3/09/10)







The Port Authority of NY & NJ Holland Tunnel Toll Plaza Booth #9 Space Temperature Probabilities (1/27/10 - 3/09/10)