Functional Test

Project:_____

FT-_____   EXTERIOR LIGHTING CONTROLS

1.   Participants

Party	Participation
_____	_____
_____	

Party filling out this form and witnessing testing _____
Date of test _____

2.   Prerequisite Checklist

a. __ All control system functions for this and all interlocking systems are programmed and operable per contract documents, including final setpoints, schedules, debugging and fine tuning of photo-cell parameters.

   _____   _____
   Controls Contractor Signature or Verbal   Date

b. __ All A/E punchlist items for this equipment corrected.

c. __ Safeties and operating ranges reviewed.

d. __ Test requirements and sequences of operation attached.

e. __ Schedules and setpoints attached.

f. __ Have all energy savings control strategies, setpoints and schedules been incorporated that this equipment and control system are capable of? If not, list recommendations below.

g.   __ **BAS Program Review.** Review the BAS software control program(s) for this equipment.   Parameters, setpoints and logic sequences appear to follow the specified written sequences.

h. __ Schedule of fixtures on each control type (Parking or Security) has been reviewed.

i. __ Record of All Values for Current Setpoints (SP), Control Parameters, Limits, Delays, Lockouts, Schedules, Etc. Changed to Accommodate Testing:

Parameter	Pre-Test Values	Returned to Pre-Test Values √	Parameter	Pre-Test Values	Returned to Pre-Test Values √
Parking lot lights schedule	<u>ON</u> by photo cell <u>OFF</u> by sched: _____		Exterior security lights schedule	<u>ON</u> by photo cell <u>OFF</u> by photo-cell	
Photo-cell BAS parameters					

3.   Sensor Calibration Checks. Check the sensors listed below for calibration and adequate location. This is a sampling check of calibrations done during prefunctional checklisting. Test the packaged controls and BAS readings.

<u>Notes:</u>

---NONE--

4. Device Calibration Checks.
---NONE---

5. Verification of Misc. Prefunctional Checks.

Misc. site checks of the prefunctional checklist and startup reports completed successfully.   Pass? Y / N _____
__ Photo-cell (PC) mounted securely.   __ PC mounted where it won't be tampered with.   __ PC mounted so it
   won't become dirty easily.   __ PC accessible for servicing.

6.   Functional Testing Record

Proced. No. & Spec. Seq. ID[1]	Req ID No.[2]	Test Procedure[3] (including special conditions)	Expected and Actual Response[4] [Write ACTUAL response in brackets or circle]	Pass Y/N & Note #
1		Near dusk, observe exterior lights until they come ON. (Witnessed by Owner's Rep: _____	<u>All</u> exterior lights come on at dusk, before dark, but not when still very light.	
2		a) Change the Parking Lot light schedule OFF to be in 5 minutes. b) Return schedule to normal.	a) Observe that the parking lot lights, designated by the approved schedule, shut OFF. Designated signage remains ON. b) Schedule returned to normal.	
3		Before daylight in the morning, observe the security lights ON. Wait until dawn. (Witnessed by Owner's Rep: _____	When sufficiently light, Security Lights and signage lights shut OFF.	
4	--	**Return all changed control parameters and conditions to their pre-test values[5]**	**Check off in Section 2 above when completed**	

Record Foot Notes
[1]Sequences of operation specified in Contract Documents (attached).
[2]Mode or function ID being tested, per testing requirements section of the project Specifications.
[3]Step-by-step procedures for manual testing, trend logging or data-logger monitoring.
[4]Include tolerances for a passing condition.
[5]Record any permanently changed parameter values and submit to Owner.

-- END OF TEST --

Notes: