Minimum Requirements Document

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Customer	**State of RI 324**	Program	**EI**
Facility	**State Health Laboratories, Chapin Building**	Application #:	**9407907**
Measure	**Interior Lighting with Controls**		

This document specifies the agreed upon minimum equipment specifications and operational requirements of the proposed system. These requirements shall address the criteria necessary to be met to achieve the demand and energy savings estimated in the engineering analysis for this project. Yes/No checkboxes are intended for use as National Grid's post-installation inspection record (check one).

EQUIPMENT: *Provide a list of equipment or materials installed as part of this project. Include equipment counts, HP, kW, efficiency and capacity ratings, rating conditions, location of controls hardware, etc.*

	Project Design Intent	Post Inspection Findings
Yes ❑ No ❑	1. Install (125) Renova 2x4 Flat Panel w Philips EasySense wireless OCC/Daylight/Dimming Sensor. **Model #: LFP 24-N-L035-UNV-DM-C40-AF-GW-SNS200**	
Yes ❑ No ❑	2. Install (452) Renova 4' Semi Recessed Wrap w Philips EasySense wireless OCC/Daylight/Dimming Sensor **Model #: SRW4-N-L040-UNV-DM-C40-AF-OD**	
Yes ❑ No ❑	3. Install (24) Maxlite LED 4' Vapor Tight add Philips EasySense wireless Occ/Daylight/Dimming Sensor **Model #: LSV4U2540**	
Yes ❑ No ❑	4. Install (12) Renova 4' Semi Recessed Wrap **Model#: SRW4-N-L040-UNV-DM-C40-AF**	

SEQUENCES OF OPERATION: *Provide a description of equipment operating sequences, setpoints, operating schedules, balancing requirements (flow, velocity, head, etc) or any other required operating parameters. Describe requirements separately.*

Yes ❑ No ❑	5. The fixtures shall operate for different annual hours depending on the space, and whether controls are present. The summary below details the assumed annual hours by space.	

Location Type	Control Type	Annual Hours
Dining	Multi-Control Types	1,940
Open Office	Multi-Control Types	1,940
Restroom	Multi-Control Types	1,868
Assembly	Multi-Control Types	1,940
Technical Area	(blank)	#VALUE!
	Multi-Control Types	1,895
Library	Multi-Control Types	1,293
Private Office	Multi-Control Types	1,940
Storage	(blank)	#VALUE!
	Multi-Control Types	1,423
Stairs	Multi-Control Types	5,432

Yes ❑ No ❑	6. Verify proper installation, quantity of equipment installed, and lighting levels.	

DOCUMENTATION: *List written documentation required to train, verify, operate, or maintain the equipment being installed or controlled. This may include specification sheets, test reports, construction drawings, etc.*

Yes ❑ No ❑	7. Provide documentation (invoices, etc.) of all material, labor, and engineering costs as applicable to document the total installed project costs.	Not needed at post inspection, but needed for incentive application
Yes ❑ No ❑	8. Provide Specification sheets for all fixtures that are installed	

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POST INSTALLATION VERIFICATION: *Provide a list of controls and monitoring capabilities required to verify proper system operation. Trends should document operational sequences, set points and scheduling of equipment as described in TA Study.*

Yes ❑ No ❑	9. Savings and incentive eligibility will be re-evaluated if the implemented devices vary from the bid document. No incentives are awarded if a device is not DLC or Energy Star certified.	

OTHER REQUIREMENTS: *Describe any requirements for demolition, removal, etc. of existing equipment.*

Yes ❑ No ❑	10. Provide safe access for National Grid to perform post inspection	
Yes ❑ No ❑	11. Any existing MH Fixtures must be removed from site	
Yes ❑ No ❑	12. All existing fixtures, lamps, ballasts and other demolished materials should be properly disposed in accordance with federal, state and local legislation.	

The pre-approved incentive is subject to National Grid's POST INSPECTION of final specifications, drawings and operation of the proposed equipment. In the event the proposed system is altered from the above description, notify the Company of the change prior to the equipment purchase and installation as the change in design and operation may impact the available incentive

The National Grid signature below indicates the National Grid engineer, or their representative, has reviewed and agrees to the requirements stated in this MRD. The customer signature below indicates the customer also agrees with the requirements of this MRD and will implement as stated. The customer should only sign below if this MRD has been signed by National Grid or its representative.

Digitally signed by: rodluis Date: 2019.04.01 12:18:54 -04'00'	4/1/19		
National Grid Engineer or Representative	Date	Customer Agreement Signature	Date

Once the installation is complete and the equipment is operational, the post inspector will sign below, confirming all requirements of this MRD have been met, and/or any discrepancies have been noted. National Grid will review any discrepancies to determine their impact on energy savings or incentive. The final customer signature indicates that they agree with the findings of the post inspector, including any discrepancies noted, and are satisfied with the installation.

National Grid Post Inspector	Date	Customer Certification of Installation	Date