



Energy · Quality · ControllabilitySM

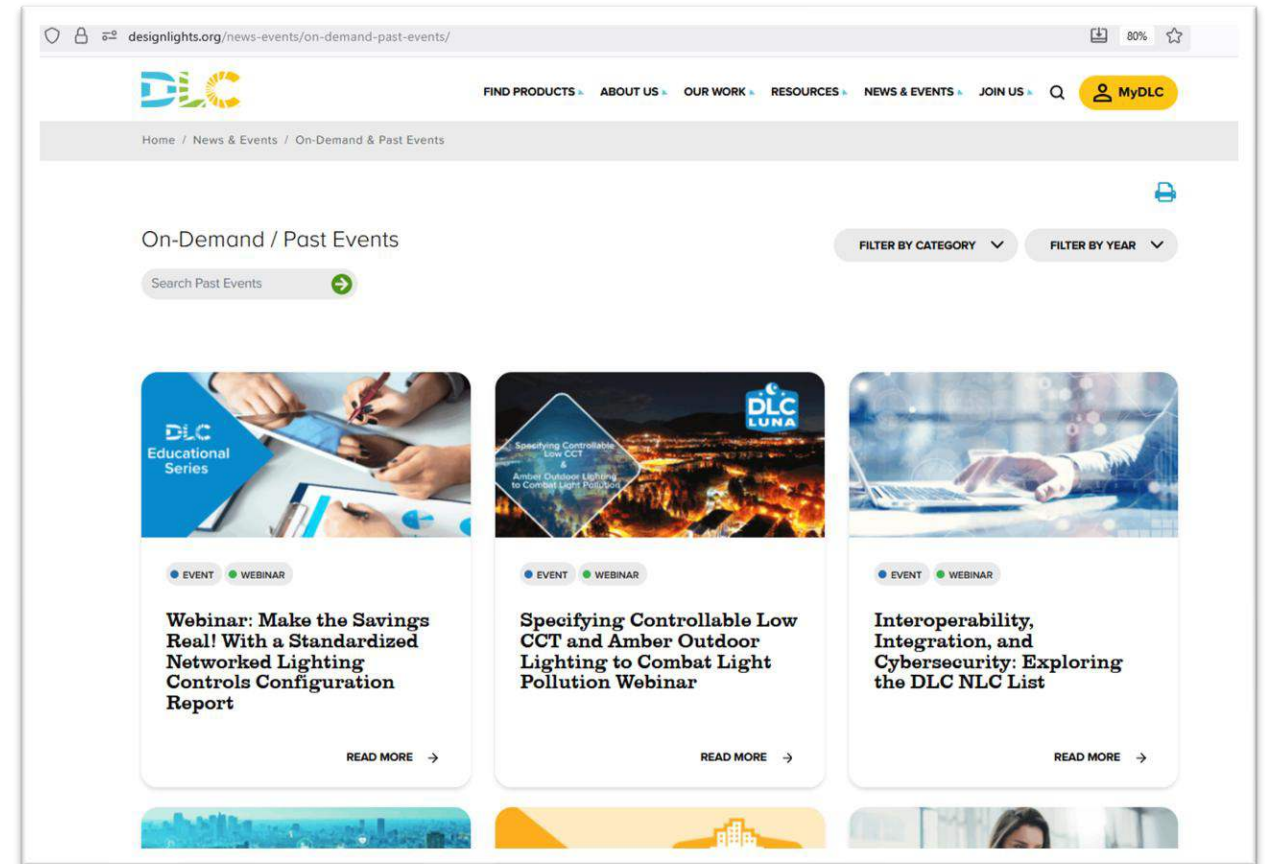
SSL V6.0 & LUNA V2.0 Application Submission Webinar

11/18/25

designlights.org

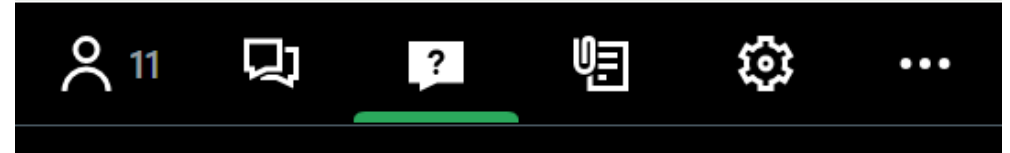
Welcome!

- **Slides and recorded webinar will be posted** on the *DLC News & Events* page at <https://designlights.org> shortly after today's presentation
- All attendees are automatically muted



Webinar Orientation

- Questions will be held until the end during a live Q&A
 - Use the Question pane (not Chat) to submit for Q&A





The DesignLights Consortium is an independent, nonprofit organization providing decision makers with data and resources on quality lighting, controls, and integrated building systems to reduce energy, carbon, and light pollution.



Presenters

Q&A



Leora Radetsky
*Senior Lighting Scientist/
LUNA Program Director*



Aaron Feldman
*Associate Director of
Operations*



Jason Jeunnette
Technical Manager



Erin Walling
*Applications Operation
Manager*

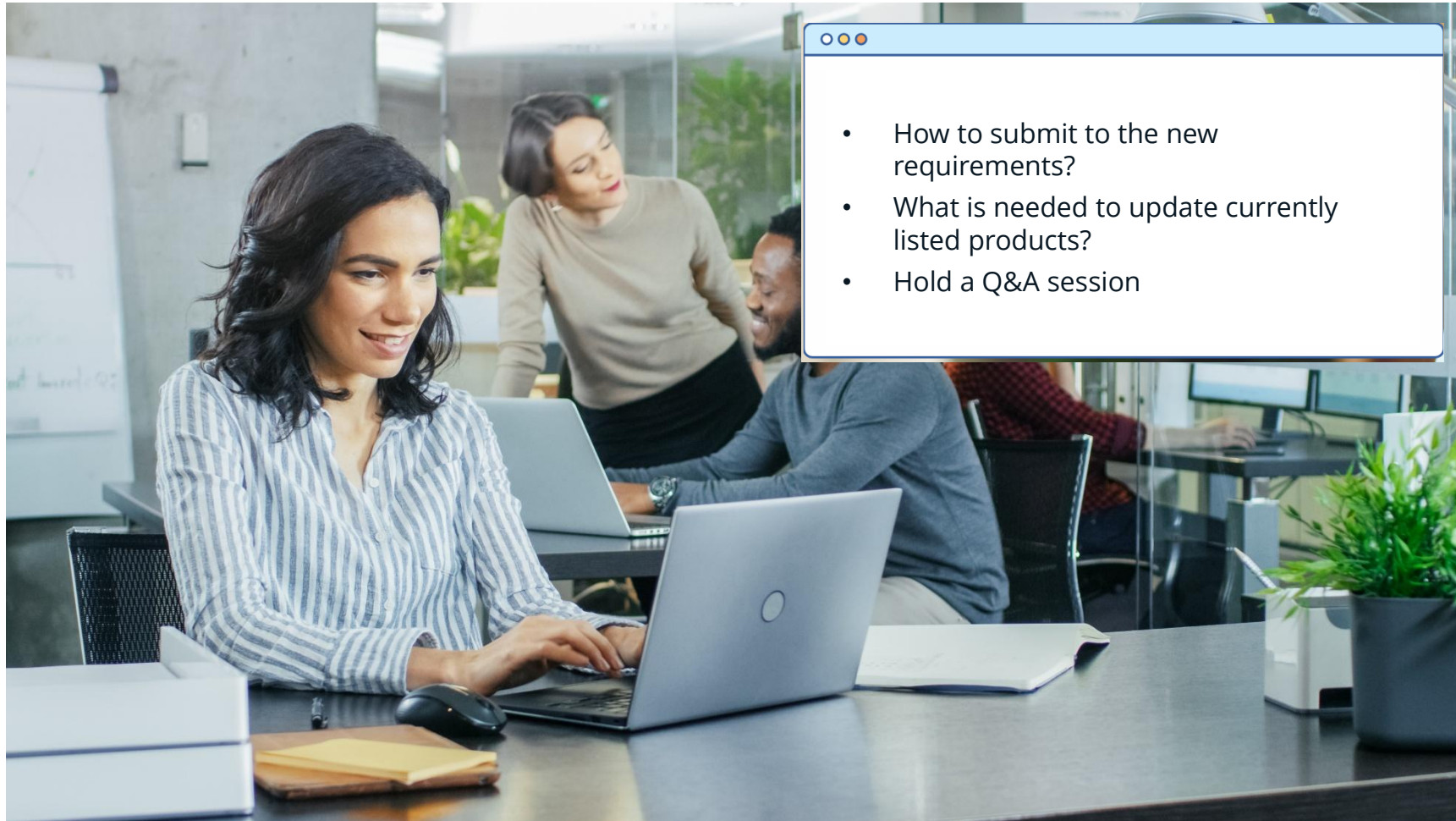


Adrian Martin
Senior Technical Analyst

Agenda

- DLC's Role and the Development of SSL V6.0
- Key Dates and Deadlines
- Submission Pathways
- Required Documentation
- Application Process
 - Unchanged submission requirements, e.g. Table 36
- Private Label Process
- Application Fees
- Available and upcoming resources
- Q&A

Webinar Objectives



A photograph of a modern office building at night, with many windows illuminated from within, showing office interiors. A large white arrow with a yellow border points from the left towards the right, partially obscuring the building. The text "Background & Value" is centered within the white arrow.

Background & Value

Why DLC?

Who benefits from the QPLs?

Why do utilities offer lighting rebates?



Why DLC?

Who benefits from the QPLs?

Why do utilities offer lighting rebates?



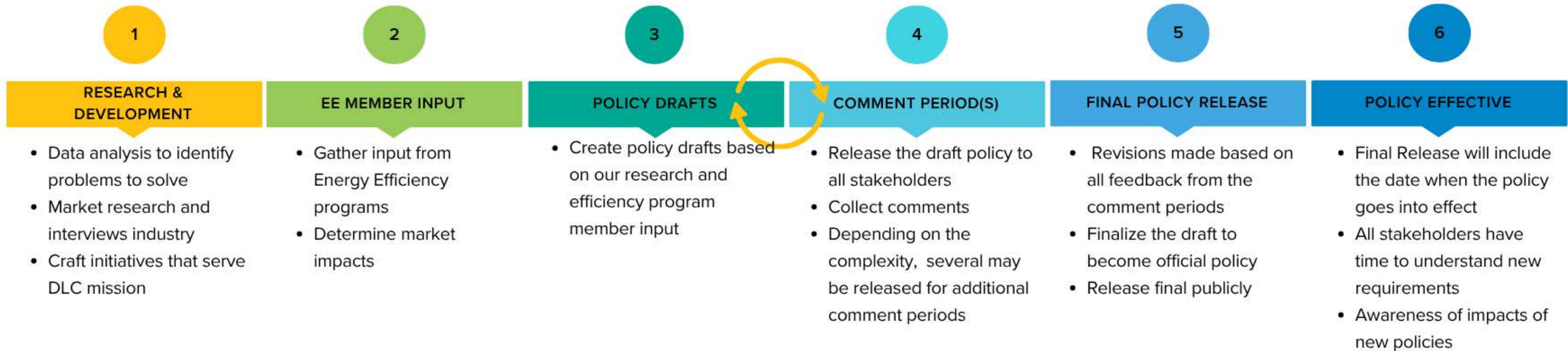
Why did DLC create
new Technical Requirements?

What will change on the
SSL/LED QPL?

History: SSL & LUNA Technical Requirements



DLC Stakeholder Input Process



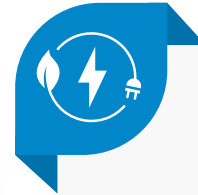
Thank you for being part of our consortium



SSL V6.0 & LUNA V2.0 Goals



Advance energy efficiency
and support decarbonization through
increased efficacy thresholds and controls
requirements.



Strengthen the SSL QPL
by expanding eligibility to support
sustainability, lighting innovation, and
flexible installation practices.



Drive adoption of controls
through compatibility-based product
selection from SSL and NLC QPLs.



Mitigate light pollution
by promoting responsible outdoor
lighting options.

Document Overview

DLC Technical Requirements for LED Lighting is a comprehensive document that revises and builds upon:

- SSL V5.1 Technical Requirements
- LUNA V1.0 Technical Requirements
- All standalone SSL Technical Requirement policies (e.g. Technical Requirement Tables, Warranty, Lifetime, Testing constraints, Power quality and more)

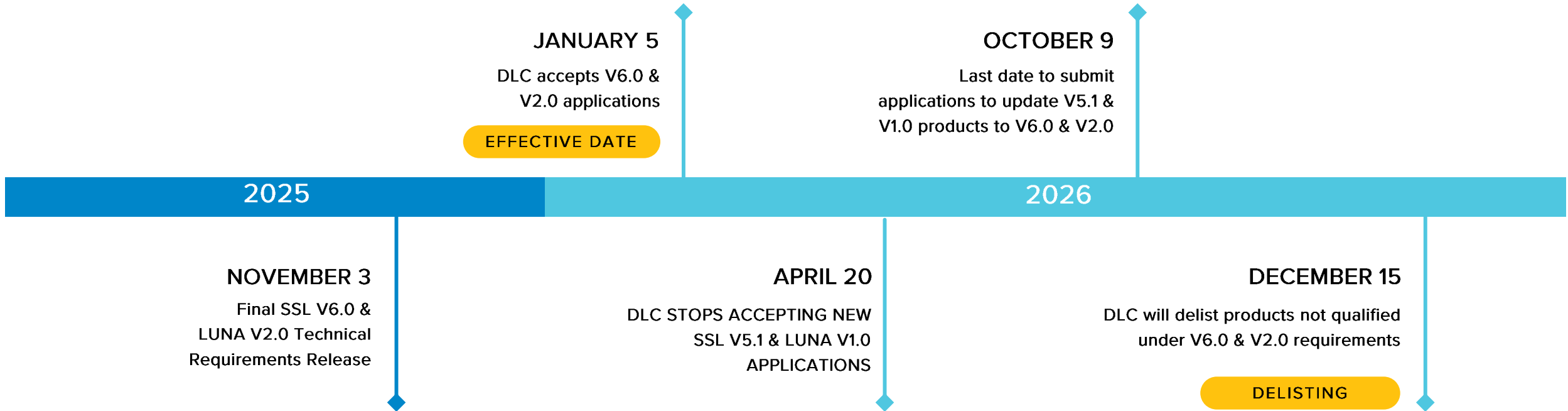


<https://designlights.org/our-work/solid-state-lighting/ssl-v6-luna-v2/>



Applications Timeline

Timeline Details





Submission Pathways

Submission Pathways

New

Applications to qualify new products to the QPL as V6.0. All testing and documentation to demonstrate compliance needed.

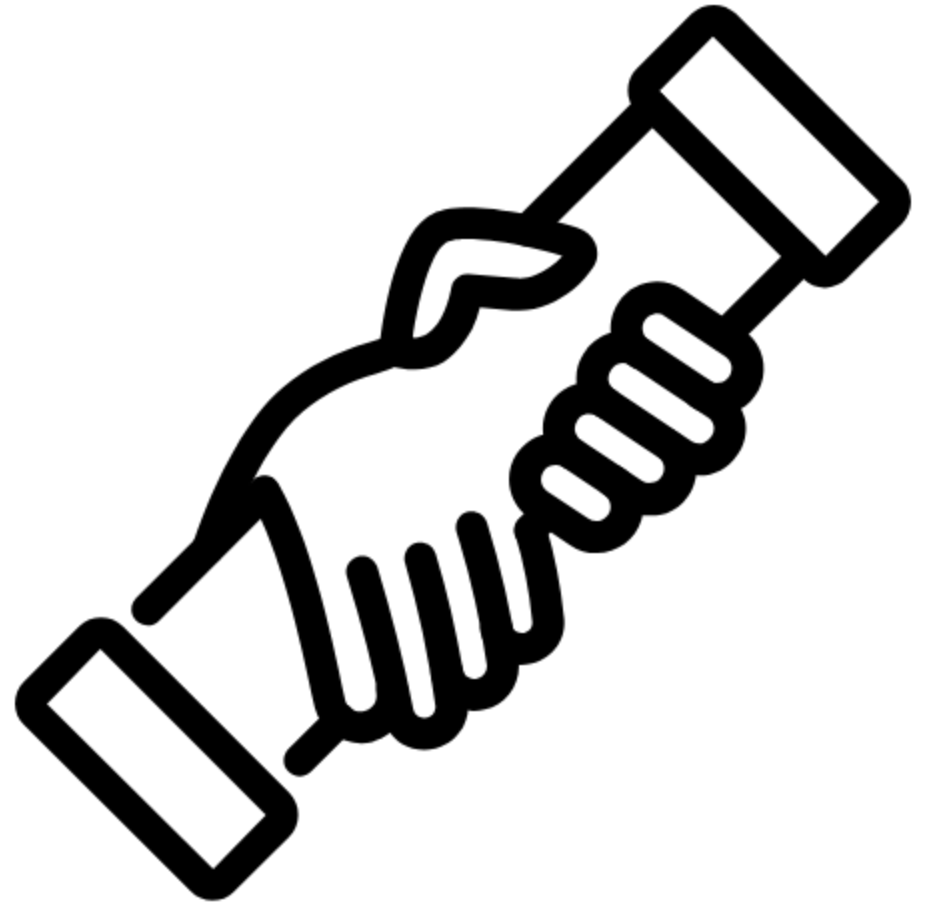
Update

All Products must be submitted in update applications to upgrade from SSL V5.1 & LUNA V1.0 to SSL V6.0 & LUNA V2.0. Update applications pathway depends on if;

- a) Products have changed since last qualification
- b) Products have not changed since last qualification

Submission Pathway – Update Applications

- Update pathway considered
 - Manufacturer Burden
 - Industry Dynamics
 - Availability of previously submitted test information
- Designed with flexibility to provide V6.0 information with minimize disruption



Submission Pathways – Update Applications

Simplified Update Application

- No product changes
- Solely to upgrade products from V5.1 to V6.0
- Testing not needed
- New documentation/reporting needs for V6.0

Conventional Update Application

- Some product changes
- Upgrade products from V5.1 to V6.0
- Update performance/demonstrate compliance with product changes
- Testing may be needed
- New documentation needs for V6.0

Simplified Update Pathway – Testing Implications

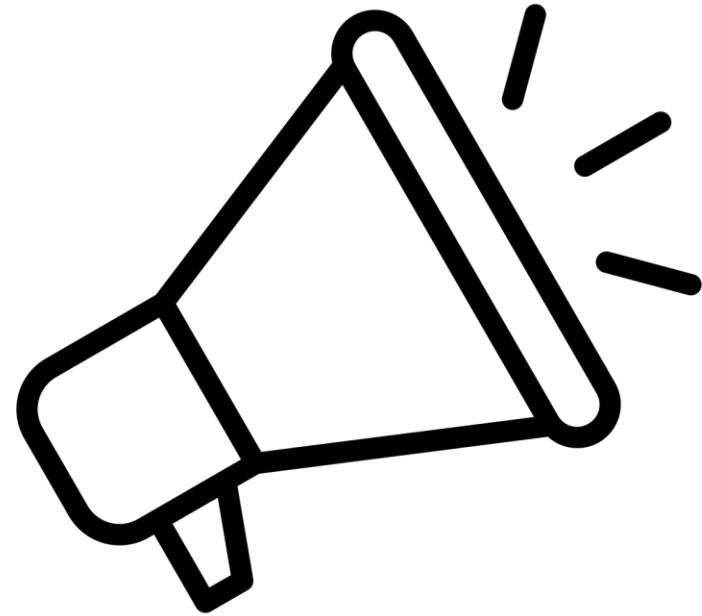
- The DLC SSL V6.0 and LUNA V2.0 has new photometric threshold requirements for
 - Efficacy
 - Chromaticity
 - Distribution (for Wall-Mounted Area PUDs and previously specialty PUDs)
- Reported (nominal) performance is sufficient to demonstrate compliance.
- If a tested product is delisted due to a change in the technical requirements, a new replacement test on a V6.0 eligible product is NOT required
- Please refer to the SSL V6.0 & LUNA V2.0 Manufacturer and Industry Guidance for specific details.

Simplified Update Pathway – Testing

Metric	Tested Models
Minimum Light Output	Worst-case light output
Minimum Efficacy	Worst-case efficacy
Maximum CCT	Highest CCT in family at lowest color rendition option
Minimum CCT	Lowest CCT in family at lowest color rendition option
Minimum Color Rendering	Lowest color rendition option in family
Chromaticity	Lowest/Highest CCT at lowest color rendition option Lowest CCT at highest color rendition option (Premium only)
Lumen Maintenance	ISTMT at worst-case thermal conditions of LED
Driver Lifetime (Premium)	Worst-case driver temperature for each unique driver
Zonal Lumen Distribution (ZLD), Spacing Criteria (SC)	Each unique optical and distribution pattern
BUG Ratings (outdoor only)	Each unique optical and distribution pattern
UGR (Specific Indoor PUDs and Premium Only)	Each unique optical and distribution pattern at the highest lumen output without consideration of the effect of color properties
THD, PF	Worst-case performing driver in family

Simplified Update Pathway – Manufacturer Notifications

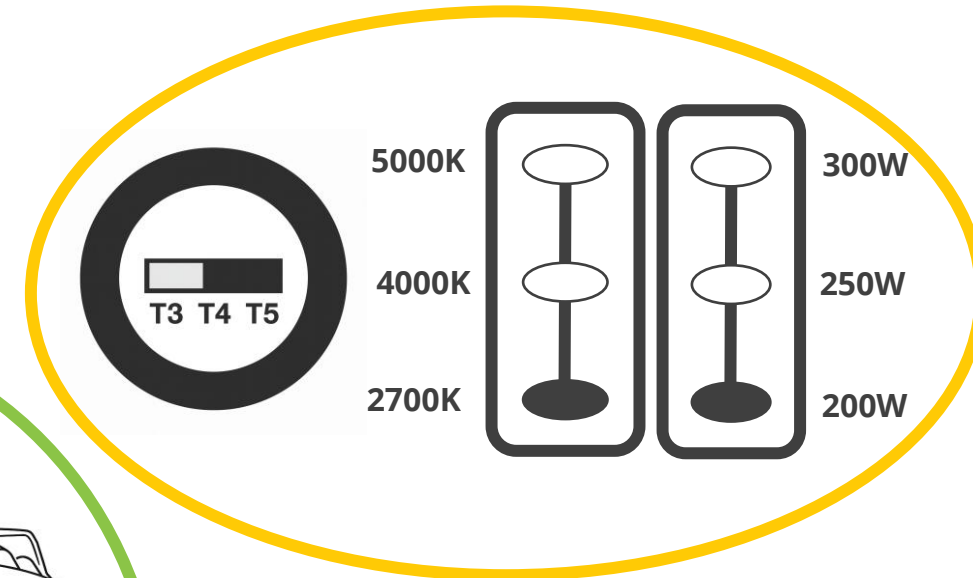
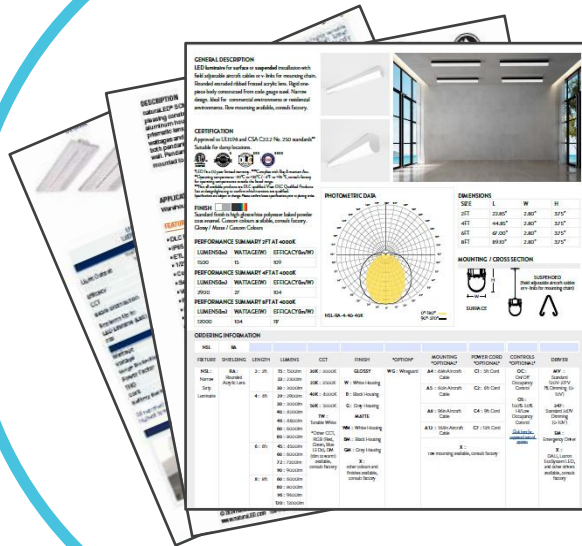
- The DLC will be conducting analysis based on product reported data
- Outreach to all manufacturers with;
 - Listed V5.1 products that are eligible for V6.0 determined by reported data
 - Listed V5.1 products that do not meet the photometric threshold requirements in V6.0 determined





V6.0 Documentation Requirements

New Documentation Requirements for V6.0



New Documentation Requirements for V6.0



Product Specification Sheets



1. How do you want to associate specification sheets to your products

- ☐ One Specification Sheet for all products in the application
- ☐ Associate Specification Sheets one by one
- ☐ Associate Specification Sheets to Products in Bulk

2. Which specification sheets do you want to use?

Required

- ☐ Specification Sheets submitted on the previous page
- ☐ URL to specification sheet/product webpage
- ☐ Associate Specification Sheets to Products in Bulk

Product Images



1. How do you want to associate Product Images to your products

- ☐ One Image for all products in the application
- ☐ Associate Image one by one
- ☐ Associate Image to Products in Bulk

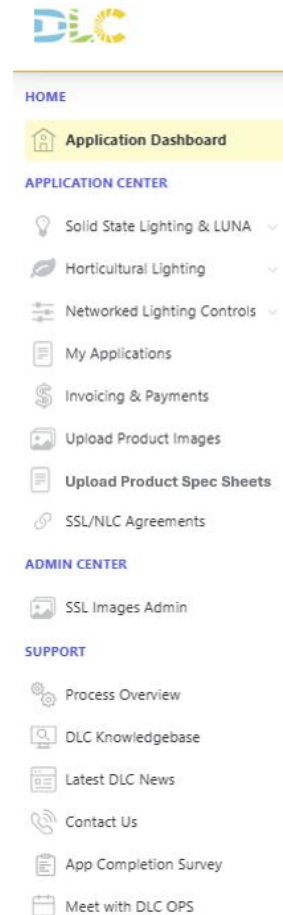
2. Which images do you want to use?

Required

- ☐ I will upload my own image files
- ☐ URL to image files
- ☐ Pick from Library
- ☐ Take a screenshot from my specification sheet
- ☐ Associate image to Products in Bulk

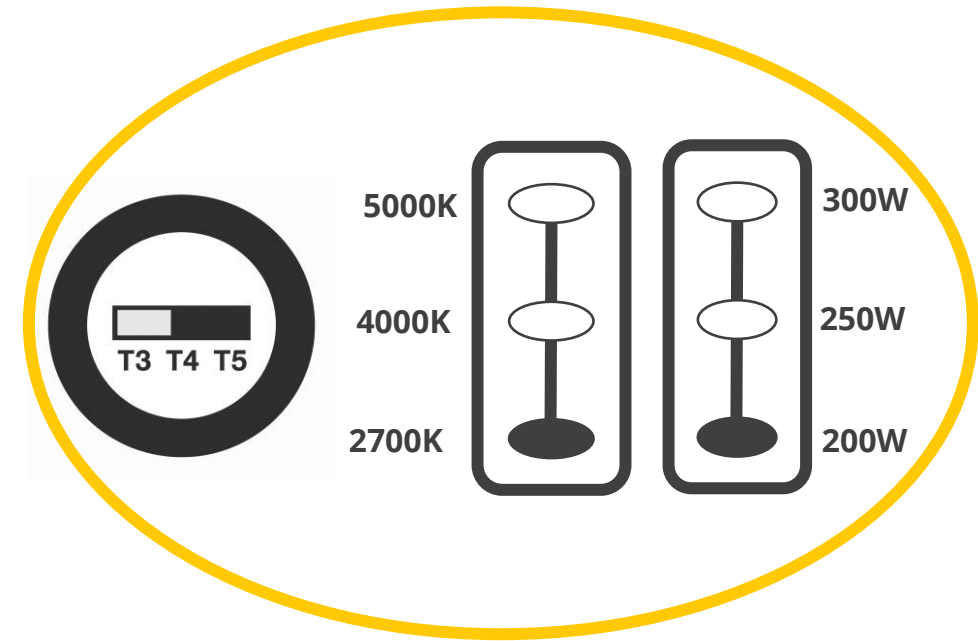
Product Images and Specification Sheets

- Product Images and Specification sheets can be updated at any time
- Accessible via application portal
- Uploading/Updating Images available now



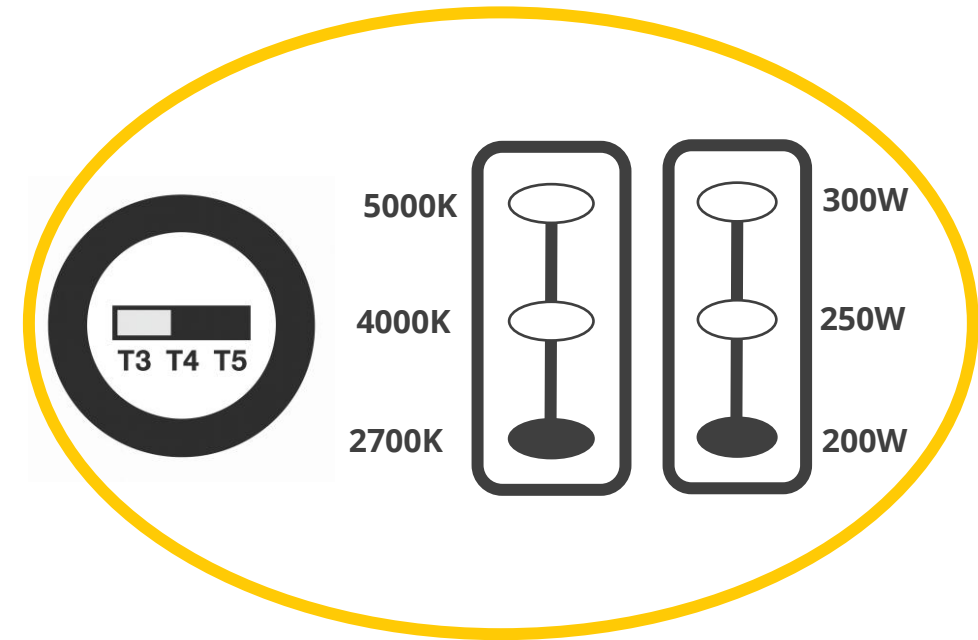
Field-Adjustability – FACT and FALD

- FACT (Field Adjustable Color Temperature)
 - Set at installation
 - Template excel noting the settings and CCT submitted within application questionnaire
- FALD (Field Adjustable Light Distribution)
 - Template excel noting the settings, adjustment type (e.g. NEMA Flood Type, IES Distribution Types) submitted within application questionnaire



Field-Adjustability – FALO

- FALO (Field Adjustable Light Output)
 - Set at installation
 - Included as columns within the application excel form including light output in lumens and wattage for each set point



Sustainability

- Optionally, manufacturers can include in the application excel form notes on the sustainability certifications available
- Table 17 of the Technical Requirements includes the available metrics



Controllability

- Expand incentive programs for luminaires with integral controls, controls-ready luminaires
- Align claimed energy savings with lighting controls strategies
- Controls Categories derived from control option capabilities



Controls Categories



Control Category Classification Impact

- Premium qualification is only eligible for products with Categories 1 – 6.
- Products with controls category 0
 - Can ONLY be classified as DLC standard
 - A luminaire, lamp, or retrofit kit with no integral control capabilities
- Models may need to be separated into two
 - One as standard with Controls Cat 0
 - One as premium with Controls Cat 1+

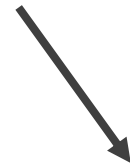


Controls Options Tables

ALL PRODUCTS												Controls Category
1	2	3	4	5	6	7	8	9	10	11	12	
Controls Option Code	Driver Type	Dimming Capability	Min. Dimming Level	Integral Controller or Sensor Type	Top or Side Controls Receptacle Type	Bottom or Side Controls Receptacle Type	Integral Sensor Function	Integral Sensor Technology	Integral Sensor Max Mounting Height (ft)	NLC Product ID	Controls Ready Accessory Model Numbers (optional)	
[blank]	10V (wired)	Continuous	10%	None	None	None	None	None	N/A	N/A	N/A	0
ABCD	10V (wired)	Continuous	10%	Bluetooth NLC (wireless)	None	None	Occ. + Daylight	PIR	20	NLC3782	N/A	6

Controls Options Tables SSL – NLC Connection

ALL PRODUCTS												Controls Category
1	2	3	4	5	6	7	8	9	10	11	12	
Controls Option Code	Driver Type	Dimming Capability	Min. Dimming Level	Integral Controller or Sensor Type	Top or Side Controls Receptacle Type	Bottom or Side Controls Receptacle Type	Integral Sensor Function	Integral Sensor Technology	Integral Sensor Max Mounting Height (ft)	NLC Product ID	Controls Ready Accessory Model Numbers (optional)	
[blank]	10V (wired)	Continuous	10%	None	None	None	None	None	N/A	N/A	N/A	0
ABCD	10V (wired)	Continuous	10%	Bluetooth NLC (wireless)	None	None	Occ. + Daylight	PIR	20	NLC3782	N/A	6



11
NLC Product ID
N/A
NLC3782

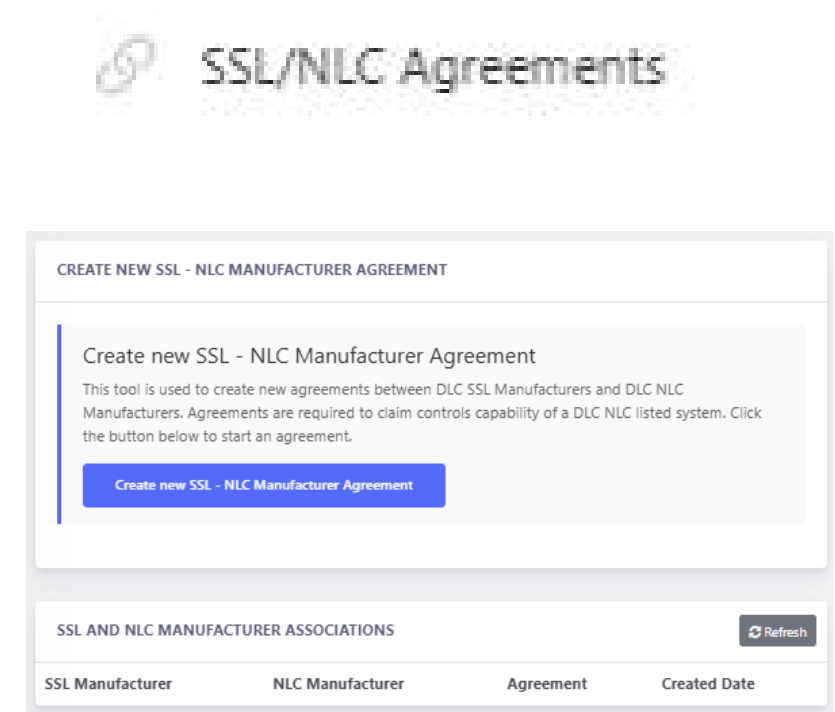
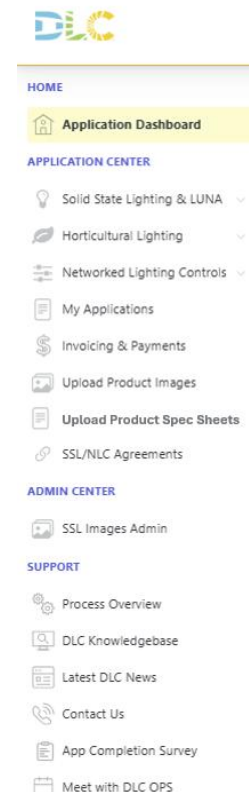
- Controls Options Codes can include NLC listed system
- Claimed relationship between SSL and NLC manufacturer validated through approval document
- Only required the first time
- Executed online

Controls Options Table SSL – NLC Connection

Within an application

- If claiming the use of an NLC System
- Contact info for SSL manufacturer and NLC manufacturer entered on questionnaire
- Agreement sent for signature
- Only needed if SSL – NLC manufacturer agreement pending

Outside an Application



Controls Options Table – Pathway A

- Brand Level Table
- Separate from Application Process
 - Email completed package to controls@designlights.org
 - Brand Level Controls Options Table
 - Template will be available on Submit a Product Pages soon!
 - Product Specification sheets (links or PDFs)
 - QPL download
- Approved Controls options codes referenced for new/update applications
 - 90 days for controls review

Controls Options Table – Pathway B

- Submitted as part of new/update application
 - Application Level Controls Options Tables
 - Template will be available on Submit a Product Pages soon!
- Products will be qualified and listed without controls information
 - 90 days for controls review after listing





V6.0 Application Process

Application Types

- V5.1 New and V5.1 to V5.1 Update applications available until April 20th, 2026
- V6.0 New and V5.1 to V6.0 Update applications accepted January 5th 2026

Start a New Application

Please enter a name for this application and confirm selection of manufacturer:

Program: SSL, Hort, NLC

Application Type: OEM or PL

Application Type:
New, Update, Simplified
Update

Technical Requirements
Version

Application Name

Enter a short application name for your reference

Manufacturer

20240701 Test org

Selected manufacturer will appear on QPL.

Cancel

Create Application

SSL V5.1 to V6.0 Simplified Update Process

- Create new application
- Select desired family to update
 - One family per application
- Download pre-filled application excel form
 - Includes only products eligible for V6.0 based on efficacy, chromaticity, and distribution
- Update application excel form
- Complete Questionnaire Pages
- Submit

Application Excel Form

Reported Performance Table Tab

- Photometric Performance
- Controls Options Code
- Sustainability
- FALO Settings
- Distribution Adjustability

Components Tab

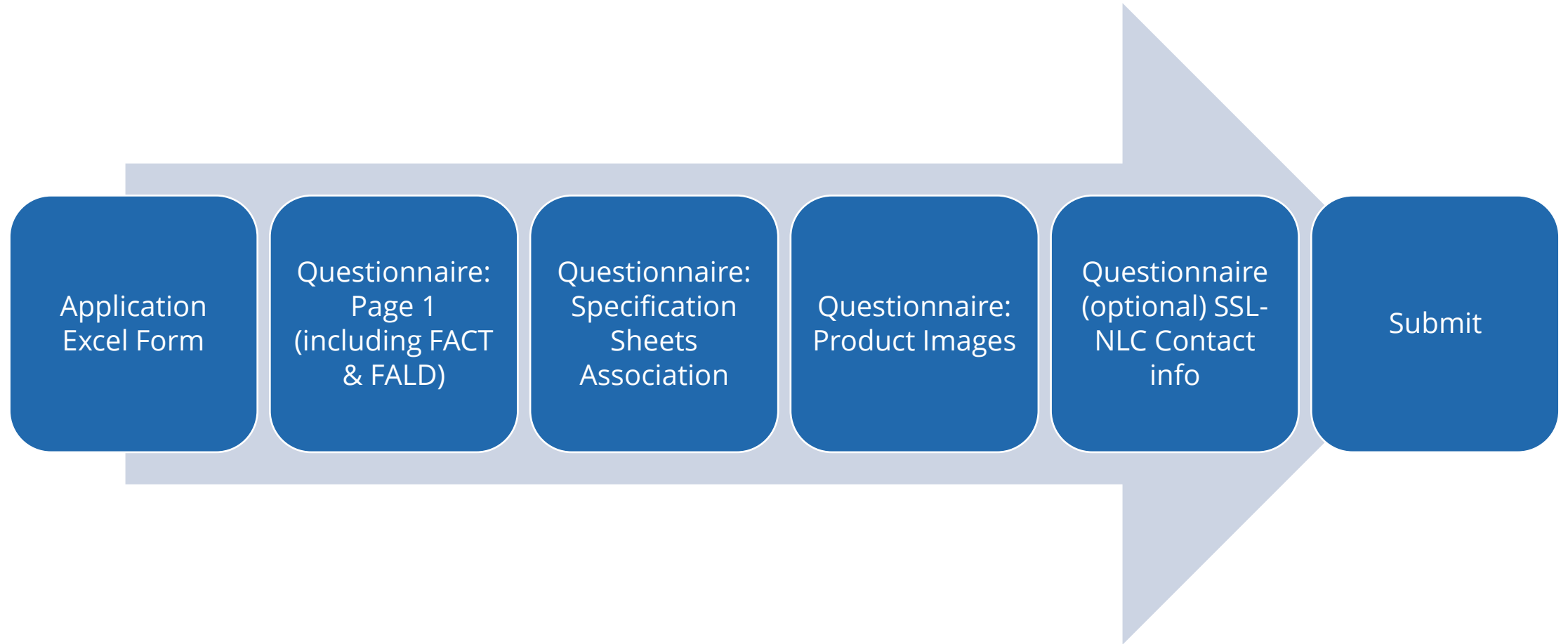
- Same as V5.1
- Drivers and LEDs

Controls Options Table

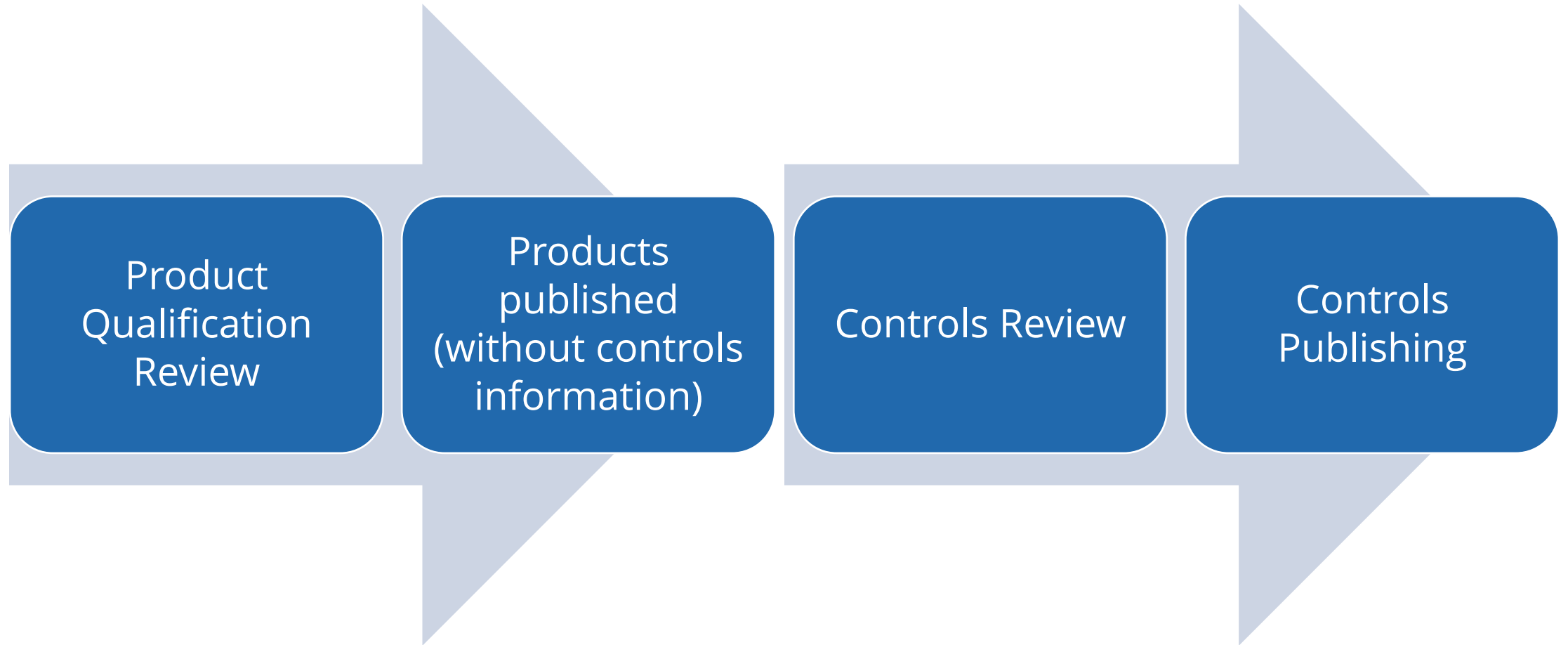
- Performance for all controls options codes included on first tab
- Only required if not already approved

Solar Tab

Application Submission Process Flow



Application Process Flow



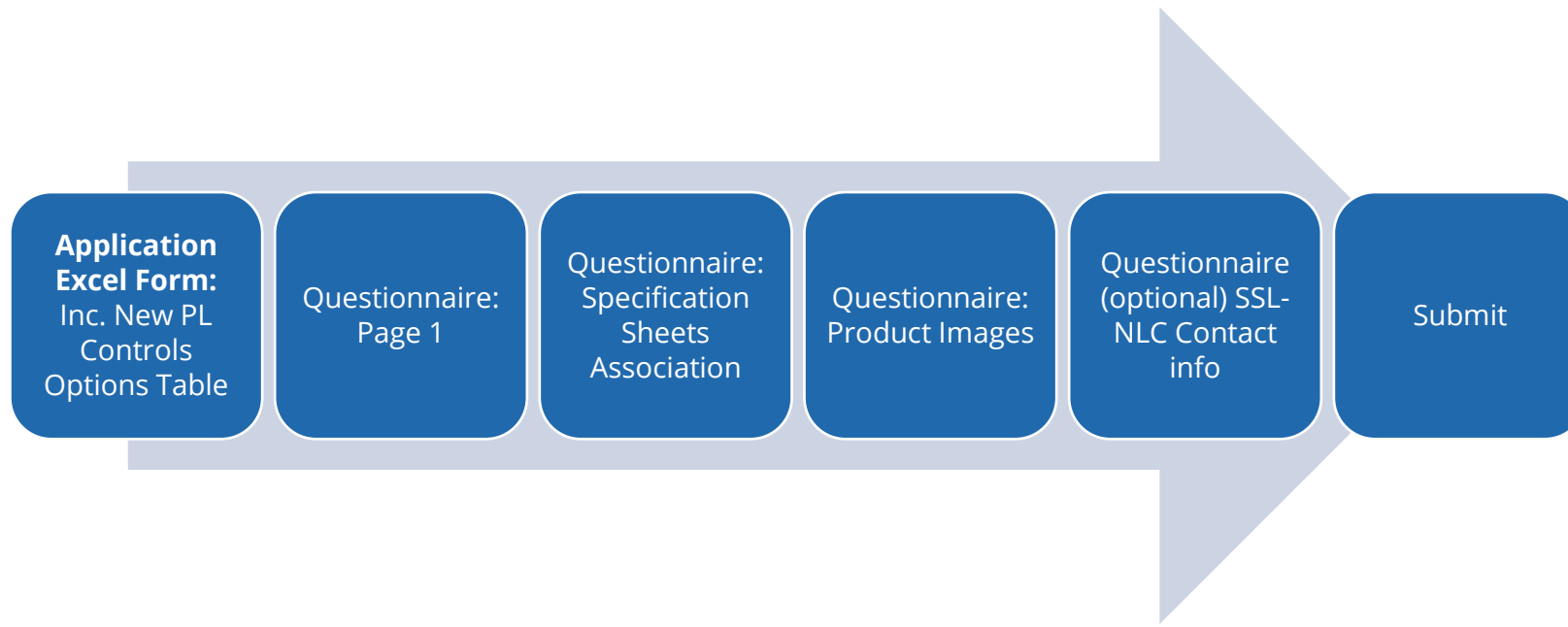
V6.0 New Applications Submission Process

- Documentation and Test Reports according to table 36 of the technical requirements
- Worst case principle used to demonstrate compliance;
 - If your worst meets → better products meet too
 - No changes from V5.1 (new test req. for Amber)
- Similar documentation needs as update applications
- Tolerances applicable to tested data only

Metric
Minimum Light Output
Minimum Efficacy
Maximum CCT
Minimum CCT
Minimum Color Rendering
Chromaticity
Lumen Maintenance
Driver Lifetime (Premium)
Zonal Lumen Distribution (ZLD), Spacing Criteria (SC)
BUG Ratings (outdoor only)
UGR (Specific Indoor PUDs and Premium Only)
THD, PF

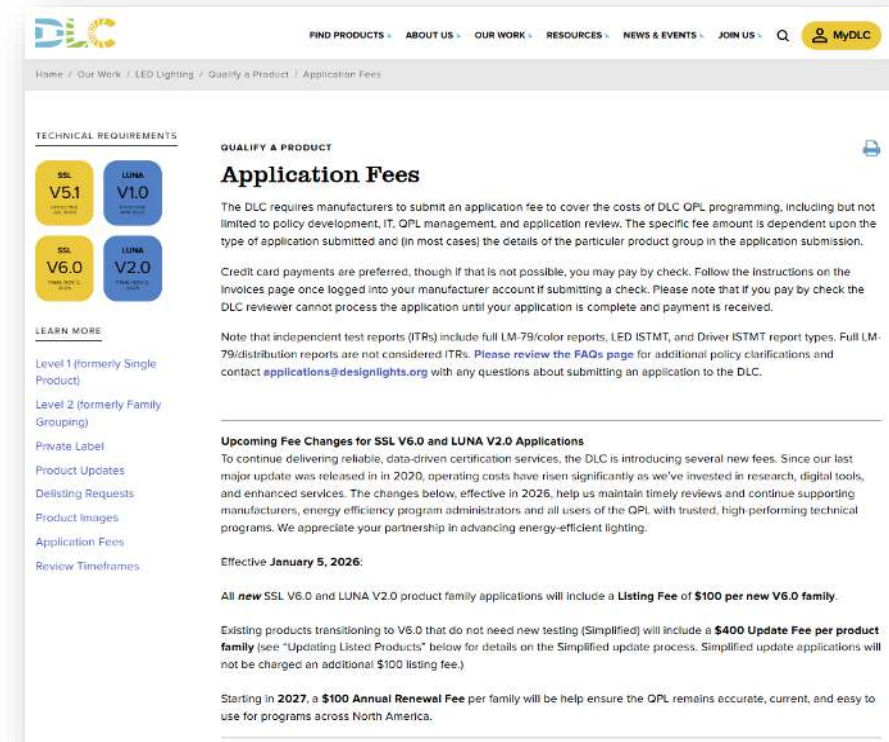
V6.0 Private Label Application Process

- Applications to update or qualify private label products to V6.0 must be submitted after their respective OEM is updated to V6.0



Application Fees – V5.1 to V6.0 Update Applications

- SSL V6.0 & LUNA V2.0 Application Fees can be found on [Application Fees Page](#)
- SSL V6.0 & LUNA V2.0 Simplified Update Fee: \$400 (per family).
 - Fee applies for all SSL V5.1 & LUNA V1.0 to SSL V6.0 and LUNA V2.0 Update Applications.
 - New products or new Independent Test Reports (ITRs) will be charged the applicable fees in addition to the \$400 V6.0 Simplified Update Process Fee.
 - Additional model numbers due to the standard and premium controls not charged additional model number fees within V5.1 to V6.0 Update applications.



The screenshot shows the DLC website's 'Application Fees' page. The header includes the DLC logo and navigation links: FIND PRODUCTS, ABOUT US, OUR WORK, RESOURCES, NEWS & EVENTS, JOIN US, and a MyDLC user link. The breadcrumb trail reads: Home / Our Work / LED Lighting / Qualify a Product / Application Fees. The page is divided into two main sections: 'TECHNICAL REQUIREMENTS' and 'QUALIFY A PRODUCT'.

TECHNICAL REQUIREMENTS

- SSL V5.1 (NEW) (NEW)
- LUNA V1.0 (NEW) (NEW)
- SSL V6.0 (NEW) (NEW)
- LUNA V2.0 (NEW) (NEW)

LEARN MORE

- Level 1 (formerly Single Product)
- Level 2 (formerly Family Grouping)
- Private Label
- Product Updates
- Delisting Requests
- Product Images
- Application Fees
- Review Timeframes

QUALIFY A PRODUCT

Application Fees

The DLC requires manufacturers to submit an application fee to cover the costs of DLC OPL programming, including but not limited to policy development, IT, OPL management, and application review. The specific fee amount is dependent upon the type of application submitted and (in most cases) the details of the particular product group in the application submission.

Credit card payments are preferred, though if that is not possible, you may pay by check. Follow the instructions on the Invoices page once logged into your manufacturer account. If submitting a check, please note that if you pay by check the DLC reviewer cannot process the application until your application is complete and payment is received.

Note that independent test reports (ITRs) include full LM-79/color reports, LED ISTMT, and Driver ISTMT report types. Full LM-79/distribution reports are not considered ITRs. Please review the [FAQs page](#) for additional policy clarifications and contact applications@designlights.org with any questions about submitting an application to the DLC.

Upcoming Fee Changes for SSL V6.0 and LUNA V2.0 Applications

To continue delivering reliable, data-driven certification services, the DLC is introducing several new fees. Since our last major update was released in 2020, operating costs have risen significantly as we've invested in research, digital tools, and enhanced services. The changes below, effective in 2026, help us maintain timely reviews and continue supporting manufacturers, energy efficiency program administrators, and all users of the OPL with trusted, high-performing technical programs. We appreciate your partnership in advancing energy-efficient lighting.

Effective January 5, 2026:

All new SSL V6.0 and LUNA V2.0 product family applications will include a **Listing Fee of \$100 per new V6.0 family**.

Existing products transitioning to V6.0 that do not need new testing (Simplified) will include a **\$400 Update Fee per product family** (see "Updating Listed Products" below for details on the Simplified update process. Simplified update applications will not be charged an additional \$100 listing fee.)

Starting in 2027, a **\$100 Annual Renewal Fee** per family will help ensure the OPL remains accurate, current, and easy to use for programs across North America.

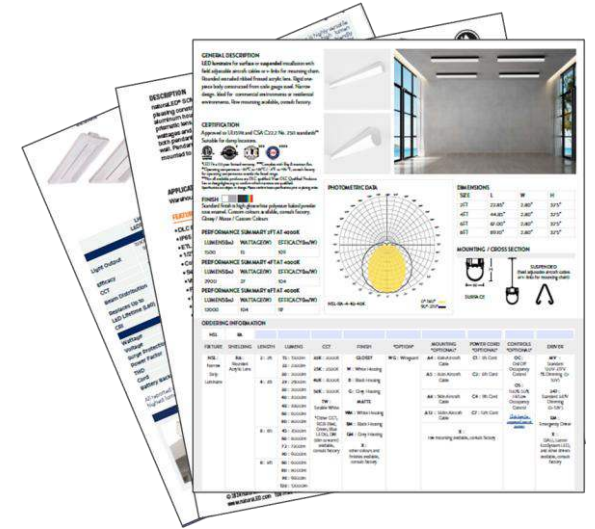
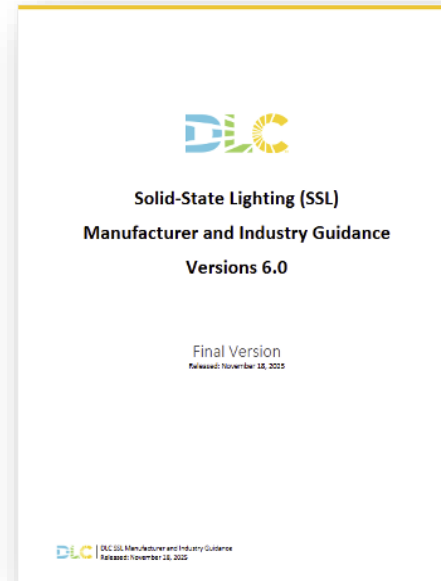
Application Fees – New V6.0 Applications

- New SSL V6.0 and LUNA V2.0 product family applications will include a Listing Fee of \$100 per new V6.0 family.
 - Included during application review along with applicable per model fees and ITR fees
 - Simplified update applications are not charged the \$100 Listing fee
- Starting in 2027, a \$100 Annual Renewal Fee per family will be assessed to help ensure the QPL remains accurate, current, and easy to use for programs across North America.

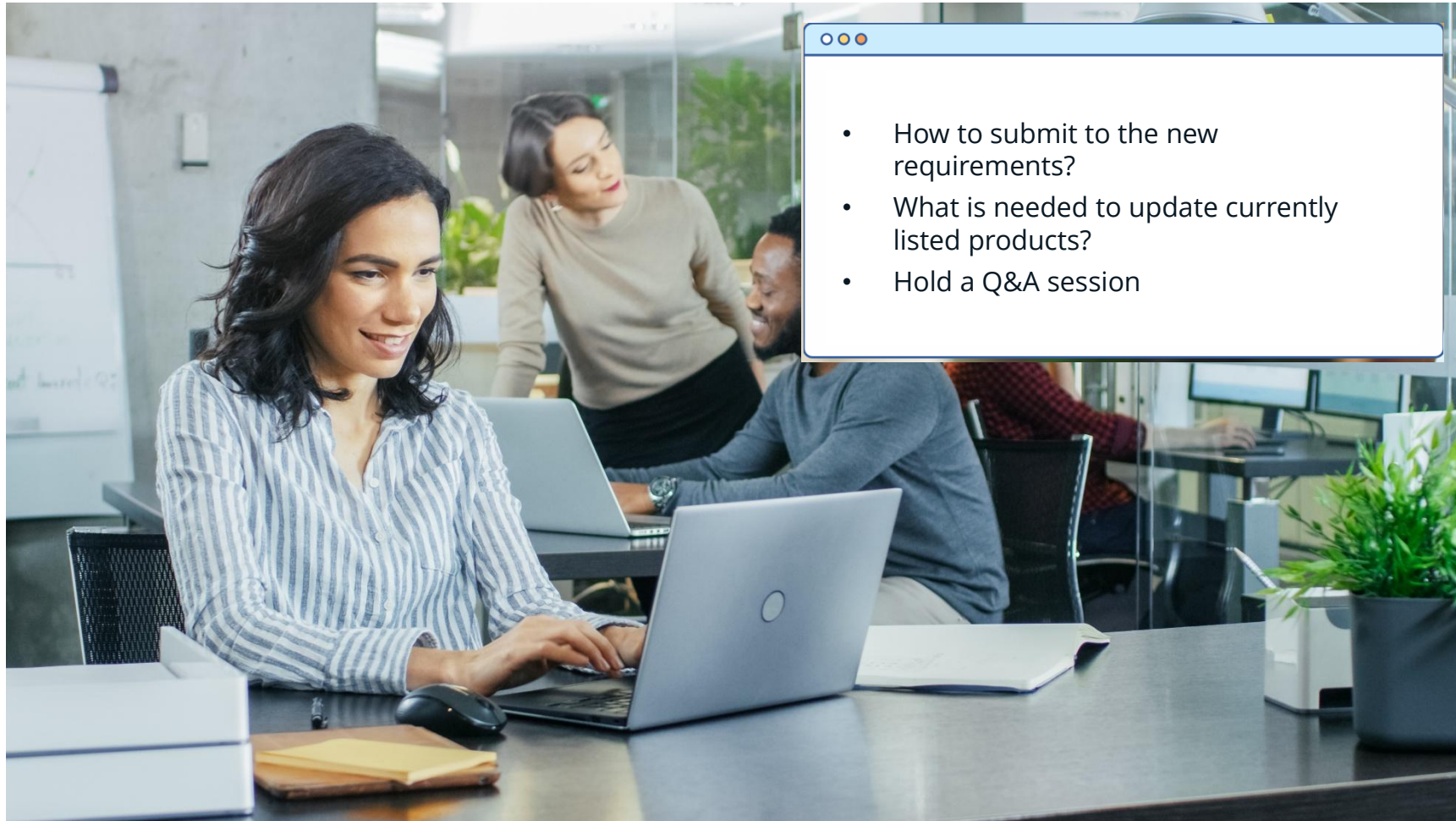


Upcoming

- To assist with updating and understanding the V6.0 requirements and submission process, suite of resources are under development.
- Individual manufacturer outreach on status of V5.1 products compared to V6.0 requirements
- Staff on hand to assist, email applications@designlights.org
- Additional details on V6.0 application review timeframes in the coming weeks



Webinar Review



Q&A

