

AGENDA

- Introductions
- Background & Purpose
- Content Overview
- SPECTRIM Demonstration
- Process & Submission
- Q&A

INTRODUCTIONS

Chief Technology Office

- John Hoffman | Interim State CIO, Chief Technology Officer
- Krishna Edathil | Director, Enterprise Solution Services
- Robert Benejam | Enterprise Architect, Enterprise Solution Services

Office of the Chief Information Security Officer

- Nancy Rainosek | State Chief Information Security Officer
- Matt Kelly | Governance, Risk, & Compliance Program Manager



OVERVIEW

[Section 2054.069, Government Code](#) entitled *Prioritized Cybersecurity and Legacy Systems Projects Report* requires the Texas Department of Information Resources (DIR) to report on state agency cybersecurity projects and projects to modernize or replace legacy systems, as defined by [Section 2054.571, Government Code](#) to the Legislative Budget Board (LBB) no later than October 1 of each even-numbered year.



STATUTE

Sec. 2054.069. PRIORITIZED CYBERSECURITY AND LEGACY SYSTEM PROJECTS REPORT. (a) Not later than October 1 of each even-numbered year, the department shall submit a report to the Legislative Budget Board that prioritizes, for the purpose of receiving funding, state agency:

(1) cybersecurity projects; and

(2) projects to modernize or replace legacy systems, as defined by Section 2054.571.

(b) Each state agency shall coordinate with the department to implement this section.

(c) A state agency shall assert any exception available under state or federal law, including Section 552.139, in response to a request for public disclosure of information contained in or written, produced, collected, assembled, or maintained in connection with the report under Subsection (a). Section 552.007 does not apply to information described by this subsection.

Added by Acts 2019, 86th Leg., R.S., Ch. 509 (S.B. 64), Sec. 12, eff. September 1, 2019.



PURPOSE

- The PCLS Project Questionnaire provides agencies with the opportunity to demonstrate the risks and potential impacts of not funding cybersecurity or legacy systems modernization projects.
- DIR will use the responses provided in the PCLS Project Questionnaire along with the Application Portfolio Management (APM) assessment responses of the business applications associated with the project in determining the project prioritization that will be sent to the LBB by October 1, 2020.



BACKGROUND

2014

- Legacy Systems Study, HB 1890 (84R)

2016

- 1st PCLS (Reported for 85R)

2018

- 2nd PCLS (Reported for 86R)
- APM Assessments w/ IRDR

2020

- 3rd PCLS (Reporting for 87R)
- PCLS Codified



QUESTIONNAIRE COMPONENTS

- **Part 1:** General Information
- **Part 2:** Associated Business Applications
- **Part 3:** Cybersecurity Issues and Controls
- **Part 4:** Legacy Issues
- **Part 5:** Probability Determination
- **Part 6:** Impact Determination

- **Instructions Document**

**2020 PRIORITIZATION OF
CYBERSECURITY AND
LEGACY SYSTEMS (PCLS)
MODERNIZATION PROJECTS**
INSTRUCTIONS FOR TEXAS STATE AGENCIES

PUBLISHED 6/25/2020

SUBMISSION DEADLINE: AGENCY LAR SUBMISSION DATE



TEXAS DEPARTMENT OF INFORMATION RESOURCES

General Information

**Part 1 – All
Projects**

Krishna Edathil



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PART 1 – GENERAL INFORMATION

- **18-24 questions**
- Project Narrative
- Project Type
- LAR/Funding Information
- Project Characteristics

PROJECT TYPE

Cybersecurity Projects must possess at least one of the following criteria:

- ▶ The project's primary purpose must be improving the organization's cybersecurity or enhancing the organization's capability to identify, detect, protect, respond, or recover from cybersecurity threats and vulnerabilities.
- ▶ The project must have clear objectives that will improve the organization's cyber maturity as measured in the biennial information security plan.

Legacy Modernization Projects must possess at least one of the following criteria:

- ▶ The project's primary purpose must be modernizing the agency's legacy systems as defined in Sec. 2054.571, Government Code. "Legacy system" means a computer system or application program that is operated with obsolete or inefficient hardware or software technology.
- ▶ The project must also be intended primarily to support continued systems currency through monitoring the agency's application portfolio and IT infrastructure.

NOTE: Projects for the 87th legislature are now either one or the other.



Related Business Applications

**Part 2 – All
Projects**

Robert Benejam



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PART 2 – RELATED BUSINESS APPLICATIONS

A Business Application name is the high-level label used by an agency to easily identify a group of functions provided by one or more systems to accomplish the specific business needs of the agency.

A Business Application is typically a combination of integrated hardware and software (including data and applications), internally developed custom systems, commercial off the shelf (COTS) applications, and/or customized third-party systems.



PART 2 – RELATED BUSINESS APPLICATIONS

Information Resources
Deployment Review
March 31

IRDR

- Inventory applications
- Determine applications to assess

Application Portfolio
Management Assessments
Prior to PCLS Submission

APM

- Complete application APM assessments as determined

Prioritization of Cybersecurity and
Legacy Systems Projects
Agency LAR Due Date

PCLS

- Associate applications to relevant project questionnaires

PART 2 – RELATED BUSINESS APPLICATIONS

All applications associated with a PCLS project must...

1. have an APM assessment completed within the last four years and
2. have the required fields completed in the application record

| Mission Critical | Most Recent Completed APM Assessment Year | PCLS Requirements Met? |
|------------------|---|------------------------|
| Yes | 2020 | Yes |

Directly Related

- the business applications related to the project are directly impacted by the project (replaced, modernized, consolidated, improved, etc.).

Indirectly Related

- the business applications that receive a secondary benefit from the project.

PART 2 – RELATED BUSINESS APPLICATIONS

▼ PART 2 - BUSINESS PROCESS AND APPLICATION INFORMATION

Business Application Information

Select the Business Application(s) that are directly impacted (Question 2.01) or indirectly impacted (Question 2.02) by this project using the "Look Up" option below. The Business Applications listed are those that were identified during the biennial IRDR. If an impacted Business Application does not appear in the list below, you may use the "Add New" button.

A Business Application name is the high-level label used by an agency business and IT organization to easily identify a group of functions provided by one or more systems to accomplish the specific business needs of the agency. A Business Application is typically a combination of integrated hardware and software (including data and applications), internally developed custom systems, commercial off the shelf (COTS) applications, and/or customized third-party systems. Information systems include interconnected set of information resources under the same direct management control that shares common functionality. An Information System normally includes, but is not limited to, hardware, software, network Infrastructure, information, applications, communications, and people.

Business Application Requirements for PCLS Submission

Business Applications that are linked in either question 2.01 or question 2.02 must have the following completed before the PCLS record may be submitted:

1. Mission Critical value: in the Business Application record, identify if the application is essential to your organization's operations.
2. Recently Completed APM Assessment: Business Applications must have had an APM Assessment performed within the last 4 years. If the "Most Recent Completed APM Assessment Year" field below is blank, or greater than 4 years old, you will need to generate a new APM Assessment via the application record.

Please select any Business Applications directly impacted by this project, i.e. being refreshed/replaced/migrated/modernized as part of this project

2.01 Related Applications

[Add New](#) [Lookup](#)

| ID | Application Name | Application Full Name | Mission Critical | Most Recent Completed APM Assessment Year | PCLS Requirements Met? | ▲ |
|----|------------------|-----------------------|------------------|---|------------------------|---|
|----|------------------|-----------------------|------------------|---|------------------------|---|

No Records Found

Please select any other related Business Applications that are indirectly impacted by this project

2.02 Indirectly Impacted Applications

[Add New](#) [Lookup](#)

| ID | Application Name | Application Full Name | Mission Critical | Most Recent Completed APM Assessment Year | PCLS Requirements Met? | ▲ |
|----|------------------|-----------------------|------------------|---|------------------------|---|
|----|------------------|-----------------------|------------------|---|------------------------|---|

No Records Found

2.03 Project Impact: Does this project impact the entire application portfolio of the agency? e.g. the project will enhance the security of all the agency's business applications.

Yes No

[Edit](#)



Cybersecurity Issues & Controls

Part 3 – Cybersecurity Projects Only

Matt Kelly



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PART 3 – CYBERSECURITY ISSUES & CONTROLS

Cybersecurity Issues

- Narrative of the existing issues, challenges, and future considerations concerning cybersecurity as it relates to the project.

What's the problem?

Cybersecurity Controls

- Narrative of the current safeguards/countermeasures in place that would lower the probability or lessen the impact of security incidents if the project is not funded.

How's it handled now?



PART 4 – LEGACY ISSUES

- **14-16 questions**
- Modernization Benefits
- Cost-Benefit Analysis & Methodology
- Modernization Scope (servers & software)
- System Characteristics



COST-BENEFIT ANALYSIS – BUSINESS CASE WORKBOOK

Cost Analysis: Business Case Cost

| Line | Category | | Year 1 | Year 2 | Year 3 | Year 4 |
|------|---|--|--------|--------|--------|--------|
| | | | FY20XX | FY20XX | FY20XX | FY20XX |
| | Agency Personnel and Contractor Costs | | | | | |
| P1-I | Project Agency Personnel Services - Implementation | Comment/ Method for Calculating | | | | |
| | Project Management/Administration | | 0 | 0 | 0 | 0 |
| | Policy and Procedures | | 0 | 0 | 0 | 0 |
| | Requirements | | 0 | 0 | 0 | 0 |
| | Design | | 0 | 0 | 0 | 0 |
| | Development/Programming | | 0 | 0 | 0 | 0 |
| | System Test | | 0 | 0 | 0 | 0 |
| | Training | | 0 | 0 | 0 | 0 |
| | Conversion | | 0 | 0 | 0 | 0 |
| | Implementation | | 0 | 0 | 0 | 0 |
| | Database Administration | | 0 | 0 | 0 | 0 |
| | System Operations | | 0 | 0 | 0 | 0 |
| | Technical Support | | 0 | 0 | 0 | 0 |
| | Documentation | | 0 | 0 | 0 | 0 |
| | Help Desk Personnel | | 0 | 0 | 0 | 0 |
| | Network Administration | | 0 | 0 | 0 | 0 |
| | IV&V Costs | | 0 | 0 | 0 | 0 |
| | Other (describe) | | 0 | 0 | 0 | 0 |
| | Other (describe) | | 0 | 0 | 0 | 0 |
| | Other (describe) | | 0 | 0 | 0 | 0 |



COST-BENEFIT ANALYSIS – BUSINESS CASE WORKBOOK

Benefit Analysis: Quantitative Project Benefits

| Line | Category | | Year 1 | Year 2 | Year 3 | Year 4 |
|------------|---|--|----------|----------|----------|----------|
| | Agency and State Benefits | | | | | |
| | Cost Savings: Improved Efficiency / Productivity | Comment/ Method for Calculating | | | | |
| A1 | Reduced IT and non-IT FTE costs including fringe benefits | | 0 | 0 | 0 | 0 |
| A2 | Reduced IT and non-IT contractors/consultants | | 0 | 0 | 0 | 0 |
| A3 | Reduced outsourced labor costs | | 0 | 0 | 0 | 0 |
| A4 | Improved workflow/business processes | | 0 | 0 | 0 | 0 |
| A5 | Reduced error rate | | 0 | 0 | 0 | 0 |
| A6 | Reduced hardware maintenance/upgrade expense | | 0 | 0 | 0 | 0 |
| A7 | Reduced software maintenance/upgrade expense | | 0 | 0 | 0 | 0 |
| A8 | Reduced facilities rental/maintenance expense | | 0 | 0 | 0 | 0 |
| A9 | Reduced equipment rental/supplies and materials expense | | 0 | 0 | 0 | 0 |
| A10 | Other cost savings (describe) | | 0 | 0 | 0 | 0 |
| A11 | Other cost savings (describe) | | 0 | 0 | 0 | 0 |
| A12 | Other cost savings (describe) | | 0 | 0 | 0 | 0 |
| A13 | Other cost savings (describe) | | 0 | 0 | 0 | 0 |
| A14 | Subtotal Cost Savings | | 0 | 0 | 0 | 0 |



Probability & Impact Determination

Parts 5 & 6 –
Cybersecurity
Projects Only

Matt Kelly



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PART 5 – PROBABILITY DETERMINATION

7 questions

- Threat Capability
- Incentive
- Control Effectiveness
- Control Reliability
- Threat Event Frequency
- Asset Exposure

PART 6 – IMPACT DETERMINATION

8 questions

- Reputational Impacts
- Operational Impacts
- Physical Impacts
- Legal Impacts
- Financial Impacts

| | | | | | |
|--------------------|---------------|--|--|--|--|
| Probability | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Impact | | | | |



SPECTRIM PCLS DEMO

Collection Tool

Matt Kelly



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Logging in

The background is a dark blue field filled with a complex network of glowing white lines and circular nodes. Various icons are scattered throughout, including a magnifying glass, a hand pointing at a keypad, a padlock, a smartphone, a document, a Wi-Fi signal, a calendar, a paperclip, a gear, a mail envelope, a warning sign, a safe, and a credit card. The overall aesthetic is futuristic and digital.

Navigation



Support Request



New PCLS Record



Delegating a Record

To: DIR GRC System

Subject: PCLS_87R_0_588749 has been delegated to you and requires your attention



Office of the
**Chief Information
Security Officer**
State of Texas

Hello User, General,

You have been assigned as a Delegate to assist in completing one of your agency's Prioritization of Cybersecurity and Legacy Systems Projects (PCLS) submissions. To view your agency's PCLS submissions, select the following hyperlink, or log into the SPECTRIM system and navigate to the PCLS workspace and select the appropriate PCLS Tracking Key.

Record Link: [PCLS 87R 0 588749](#)

Organization Name: TEST

Project Name: Legacy Project Demo

Submitter: Demo, ISO

If you have any questions about the PCLS process, please email pcls@dir.texas.gov.

If you have any issues with the SPECTRIM portal, please open an Archer Support Request or email grc@dir.texas.gov.

Thank you,

DIR GRC



Office of the
**Chief Information
Security Officer**
State of Texas



Looking up Business Applications



Return to Existing Record



Submitting a Record



Exporting a Questionnaire

SPECTRIM Accounts

- Information Resources Managers (IRM) are responsible for completing PCLS Questionnaires but may delegate to any active SPECTRIM users.
- Additional users can be requested and delegated to a PCLS questionnaire by the IRM (via support request or email GRC@dir.texas.gov).
- Accounts must be active to receive system notifications.
- Inactive/Locked accounts cannot reset passwords themselves. If you don't receive a pw reset email within 10 minutes, your account is probably inactive.
- **Contact GRC@dir.texas.gov to have inactive/locked accounts reactivated.**



SPECTRIM Portal Login

Portal Login: <https://dir.archer.rsa.com>



User Login

User Name:

Password:

[Reset Password?](#)

Login

RSA ARCHER SUITE
Powered by the RSA Archer Platform™

PW reset only works for active accounts.

PCLS Dashboard

IRDR/IR-CAP ▾

APM ▾

PCLS ▾

Select the PCLS workspace tab on the top banner to access the dashboard. If you do not see the tab, you may have to select the vertical ellipsis on the far right to view additional workspaces.

If the workspace is not available, contact GRC@dir.texas.gov to check if you have the appropriate access rights.

PCLS Links



New Cybersecurity/Legacy LAR
Prioritization Record



View All (Past or Present)
PCLS Records

PCLS Submission Status

87R Projects by PCLS Submission Stat... ▾

Awaiting Submission
to LBB : 16.67 %

Not Started : 33.33 %

Awaiting Business
Application
Assessment(s) :
33.33 %

In Process with
Submitter : 16.67 %

- Not Started
- In Process with Submitter
- Awaiting Business Application Assessment(s)
- Awaiting Submission to LBB

PCLS Questionnaire Record

Prioritization of Cybersecurity and Legacy Systems (PCLS) : PCLS_87R_0_390513

EDIT

VIEW

SAVE

SAVE AND CLOSE

Created Date: 6/24/2020 8:13 AM Last Updated: 6/24/2020 8:13 AM

0 of 32 Completed

► INSTRUCTIONS

Edit/View Mode Toggle

▼ GENERAL INFORMATION

* PCLS Tracking Key: PCLS_87R_0_390513

Organization: [0](#)

Organization Name: State Agency of Archer

Submitter:

If you are unable to find a user in the lookup dialog box, please send an email to GRC@dir.texas.gov with the user's name, email address, and the phrase "Cyber/Legacy Prioritization Questionnaire User Account".
Note: Users with inactive accounts will not receive notifications that they have been listed as a delegate or reviewer. Accounts are automatically inactivated if they have not been logged into within the

Delegated To:

Legislative Session: 87R

Year: 2020

PCLS Submission Status: Not Started

Due Date:

Reviewer:

Delegated To

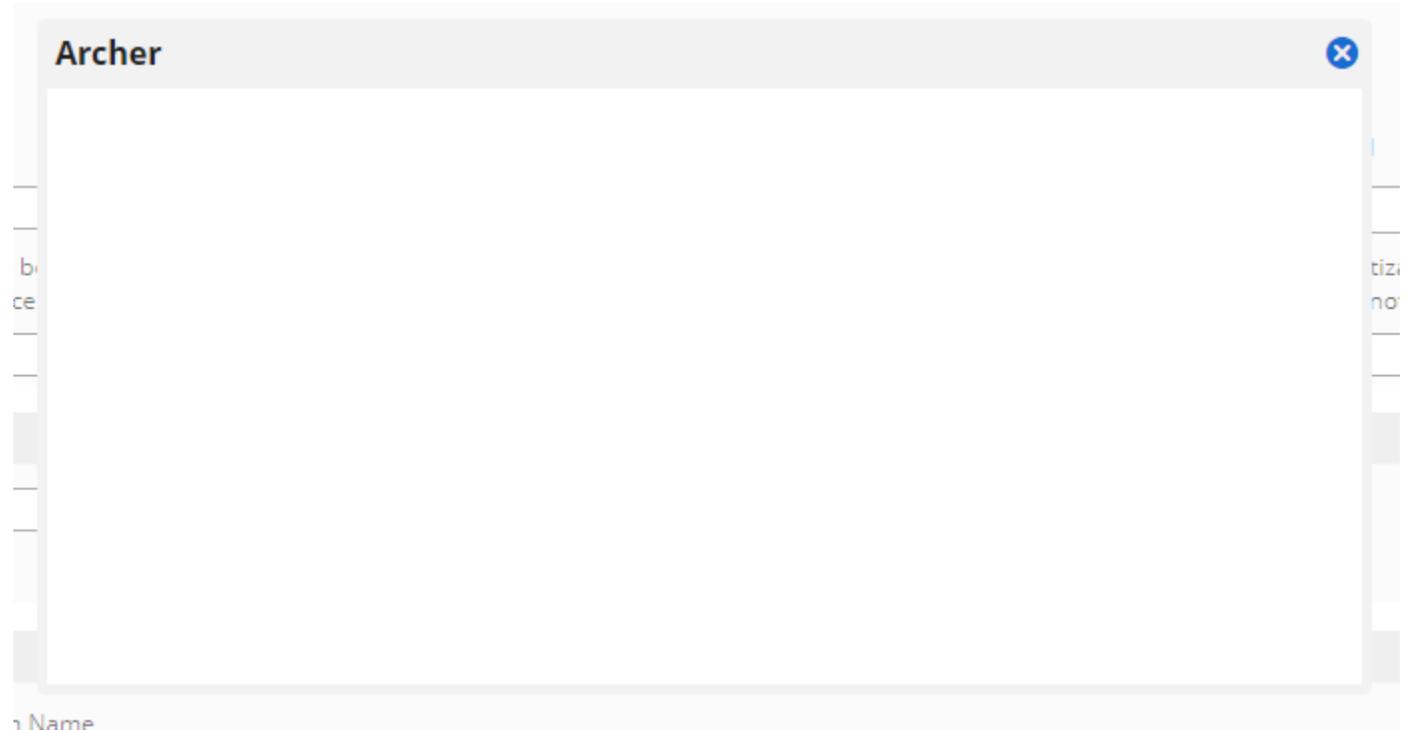
The creator of the PCLS record is automatically listed as the submitter. If the record creator wishes to allow other active users to edit and submit the PCLS record, they can look-up the user in the "Delegated To" field.

Help Text Display Icon

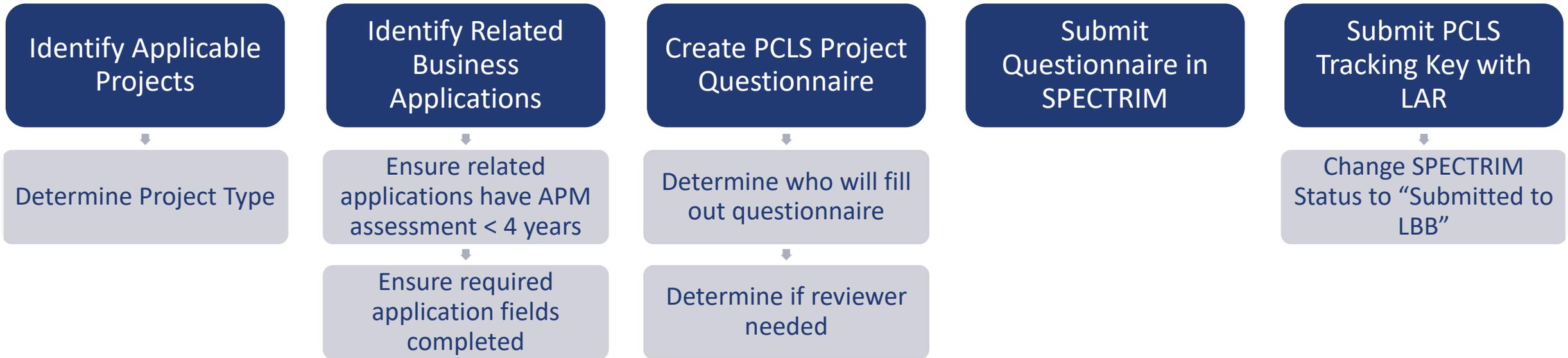
Delegate User Field Lookup

Temporary Issue Using Chrome v83

NOTE: if using Chrome v83 there is a potential issue with values lookup fields. You may have to close out if you receive a blank lookup box and try again a couple times, or use a different supported browser – Firefox, IE/Edge.



Submission Process



Questionnaire Statuses

- **Not Started** – initial status indicating that the PCLS record has been created, but no questions have been completed.
- **In Process with Submitter** – questionnaire record has been saved, but content has not been submitted for next stage. The submitter or delegate can come back to the record and update responses in this stage.
- **Awaiting Business Application Assessment(s)** – the questionnaire has business applications associated in Part 2 that do not meet the required criteria to be included in the project questionnaire. Associated applications must have the required application fields completed (e.g. Mission Critical) and must have an APM assessment completed on the application within the last 4 years. The agency will need to either complete the required APM assessment(s) or exclude applications that do not meet the requirements to submit the questionnaire.
- **In Process with Reviewer** – indicates that the questionnaire record has been finalized by the submitter and is awaiting review. This stage will only occur if the submitter or delegate assign someone to the optional reviewer field. The reviewer will need to review the questionnaire record to approve or reject the questionnaire back to the submitter.
- **Rejected by Reviewer / Re-Finalize** – indicates the optional reviewer has rejected the questionnaire. The submitter or delegate will need to revise the questionnaire content and re-finalize to submit for review again.
- **Awaiting Submission to LBB** – indicates that the PCLS questionnaire has successfully been submitted to DIR via SPECTRIM. The record will become read-only at this time. Once the PCLS Tracking Key has been submitted via the agency’s LAR, the submitter will need to return to the PCLS questionnaire record and update the “Project submitted to LBB with its PCLS Tracking Key” field to “Yes” and populated the “Date Submitted to LBB” field.
- **PCLS Tracking Key Submitted to LBB** – indicates that the PCLS questionnaire submission has been fully submitted to both DIR and LBB. Most of the record will become read only, but users may still update information about the project including Funding Status and Project Status.
- **Not Submitted – Archived** – indicates that the PCLS record was created during a previous legislative session and was not indicated as submitted to LBB. The record is read-only and may not be updated. If users want to submit the request for the 87th legislative session, they will need to create a new PCLS record.



Assistance

- DIR will use the TX-IRM mailing list for primary communications.
- For **general inquiries** about PCLS content (e.g. question clarification, process questions) email pcls@dir.texas.gov.
- For **support with the SPECTRIM portal** (e.g. password resets, obtaining credentials) email grc@dir.texas.gov or open an archer support request from within the portal.
- PCLS Webpage: <https://dir.texas.gov/View-Resources/Pages/Content.aspx?id=54>





Q & A

