



T-Line Asset Data Quality Improvement – Critical Components

Guide to Conservative Assumptions



Document Owner: _____

Version: v1.3

Date: January 14, 2020

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Document Control Sheet

Document Revision History

Version	Date	Comments
1.0	11/20/20	Initial document for Pacific Gas and Electric (PG&E) Review
1.2	12/9/20	Incorporated comments from PG&E and GTS review meeting
1.3	1/14/21	Incorporated comments from PG&E and GTS review meeting

Section 1: Objective

This process provides guidance and structure for determining conservative assumptions for Pacific Gas and Electric Company (PG&E) when unknown T-Line component specifications are encountered during AFL Build.

Section 2: Deliverables

The following deliverables will be provided:

- Develop a company specific and usable Guide to Conservative Assumptions (GTCA).

Section 3: Initial Overview

The GTCA will serve as a reference document for the AFL Build through suggesting conservative specifications with the greatest practical safety margin. Minimum suggested component specifications will be derived through a collaboration between PG&E and Exponent Engineering and Scientific Consulting. In the case where T-Line components have insufficient documentation to confirm specifications, the GTCA will provide a standard for suggesting sound engineering practice assumptions to be used until field verification can confirm the true specifications.

Section 4: Progression of GTCA

As described, initially, the GTCA will primarily consist of the most stringent of conservative assumptions to provide the out most level of safety. Evolution of the GTCA will require an extensive amount of data processing from documentation to derive more practical and comprehensive conservative assumptions. Installation record data will be continuously logged during AFL Builds to expose historical patterns and circumstances where conservative assumptions will need to be analyzed and readjusted under the review of a subject matter expert (SME).

Section 5: Process Summary

The following process maps have been developed for each “Asset Category”.

Figure 1: Steel Structure Type & Non-Steel Structure Type

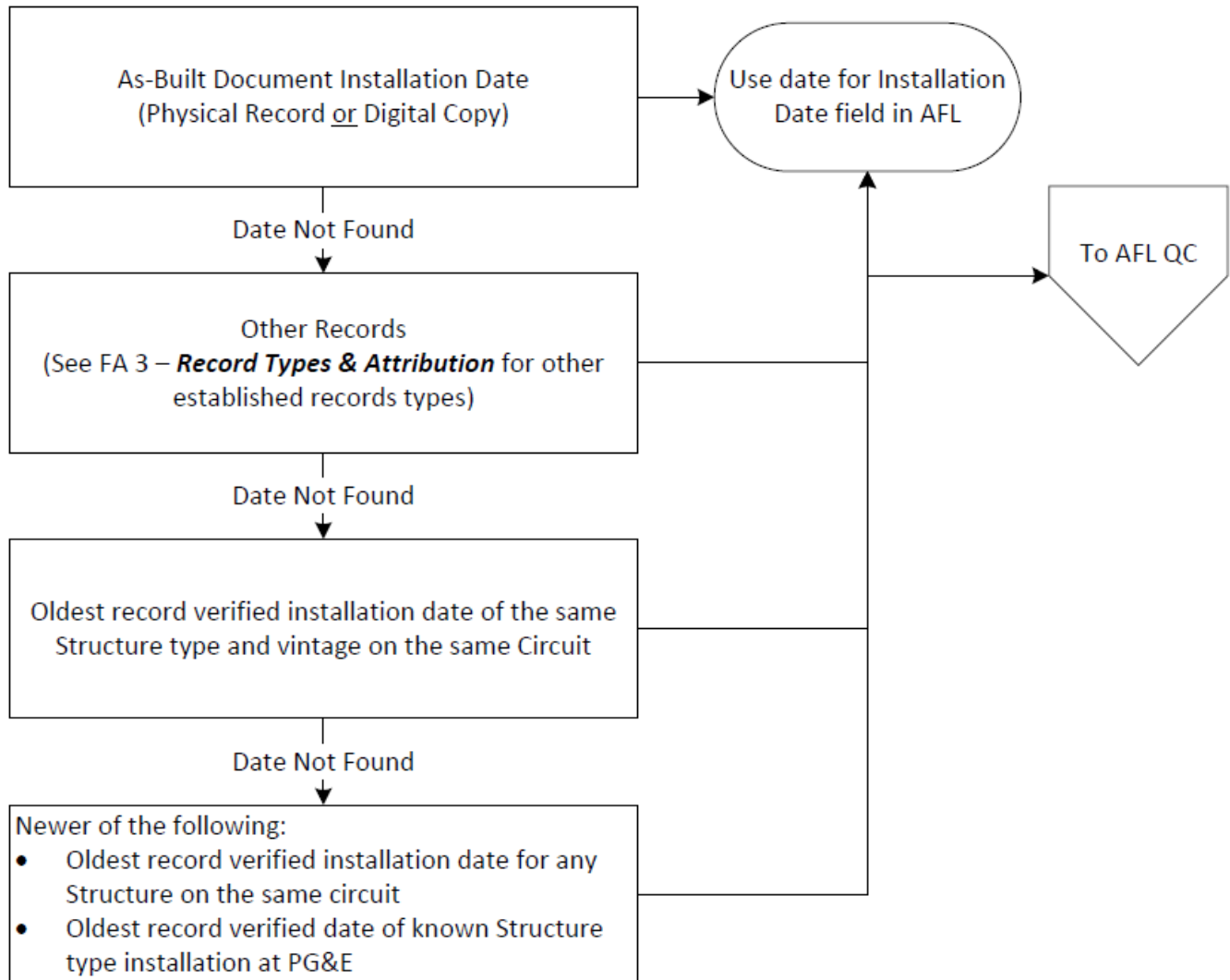


Figure 2: Conductor Type

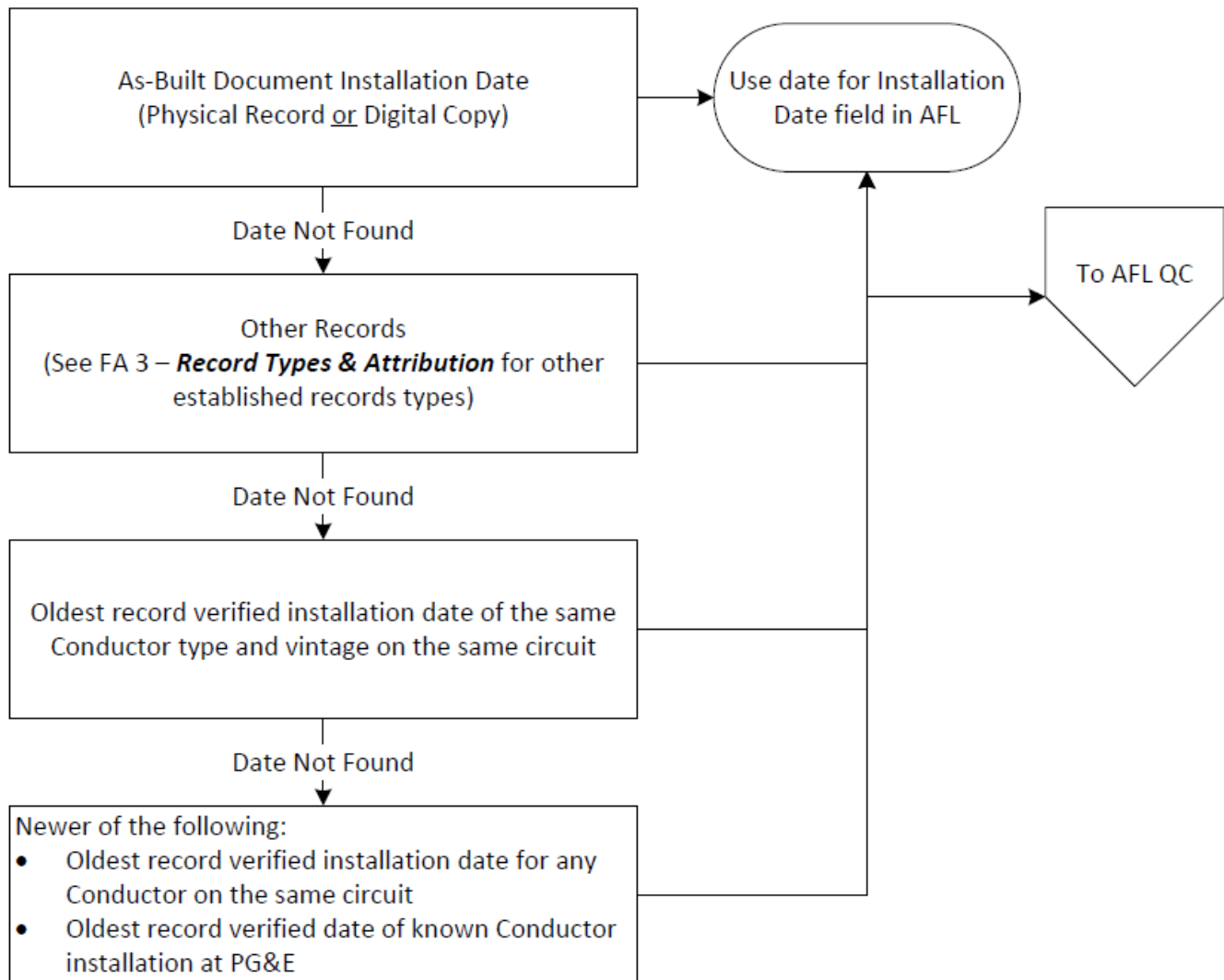


Figure 3: Insulator Type & Hardware Type

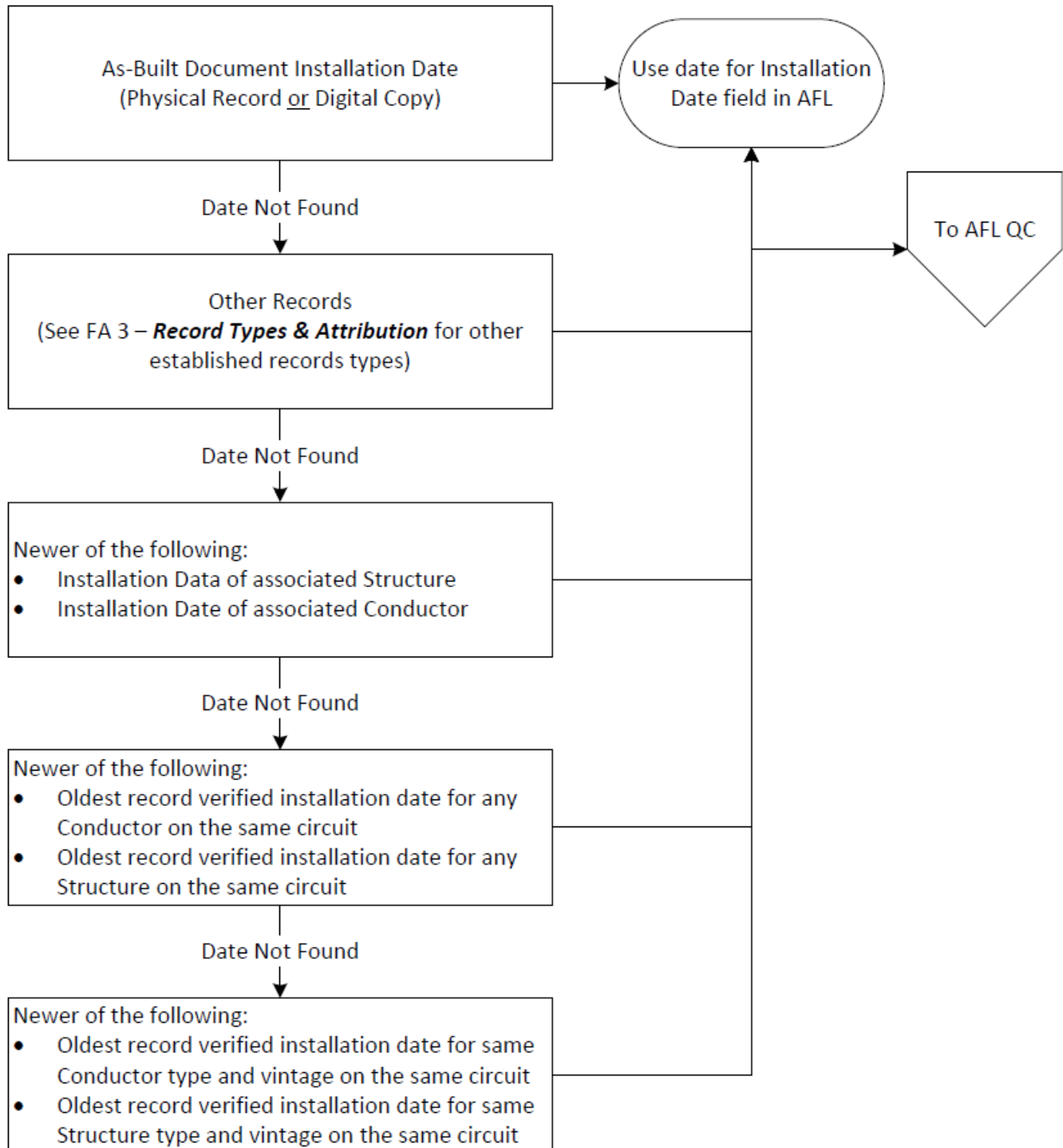


Figure 4: Switch Type

