

**\*\*\* THIS STANDARD REPLACES FORMER TDMIS-0 \*\*\***

## **PREFACE**

The City of Columbus, Division of Power (DOP) Transmission and Distribution Material and Installation Standards (TDMIS) have been developed to aid DOP staff, engineering consultants, and contractors in the design and installation of the DOP electrical transmission and distribution system.

## **HOW TO USE THESE STANDARDS**

These standards are generally divided into four sections:

- **Legacy Materials and Installation Standards (TDMIS-1 to TDMIS-1999)**

In the first publication of these standards in 2018, the specification of materials was combined with basic construction standards. This tended to create confusion because the material specifications were intended for the procurement of equipment whereas the construction standard were intended for contractors. In addition, a simple numbering convention was used to organize the TDMIS, which made it difficult to introduce new standards in a logical fashion. As the legacy TDMIS are updated, they will be migrated into the Design and Construction Standards and the Materials Specifications sections.

- **Design and Construction Standards (TDMIS-2000 to TDMIS-7999)**

The Design and Construction Standards are intended to provide guidance to engineers and contractors that are designing and constructing the DOP electrical distribution system. The standards include construction drawings and reference TDMIS Item IDs that can be used to specify materials accurately.

- **Materials Catalog (TDMIS-8000)**

The Materials Catalog acts as parts and materials cross-reference. It is organized by TDMIS Item ID and provides a description of the material, its DOP Stock Code, and a representative manufacturer and model number. It should be noted that DOP does not endorse or require the use of any particular manufacturer unless explicitly noted for the purposes of standardization.

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- **Material Specifications (TDMIS-9000 to TDMIS-9999)**

The Material Specification are intended to be used by engineers, purchasers, and equipment suppliers to procure materials that are to be used on the DOP electrical system. These specifications can be easily referenced when bidding out materials or when materials are purchased by a third party.

**WHEN TO USE THESE STANDARDS**

**New Construction**

All new construction shall be built to the most current DOP TDMIS.

**Existing Construction**

Existing construction or maintenance work (i.e., outside of complete structure replacement, reconductoring or conversions) does not require that the existing structure be brought in compliance with the current standard provided that the work being done maintains the integrity of the original structure’s construction. Safety concerns (such as clearances) or potential reliability issues at the structure shall be addressed as part of the work that is being performed.

**Emergency Construction**

Emergency or temporary construction does not require that the existing structure be brought in compliance with the current standards provided that the work being done maintains the integrity of the original structure’s construction. Critical safety concerns that may result in undue hazard or potential harm to DOP personnel or to the general public shall be addressed as part of the emergency work that is being performed. Potential reliability issues or general safety concerns at the structure shall be reported to local supervision. Emergency or temporary construction shall be brought into compliance with DOP TDMIS as soon as practical.

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<b>TDMIS</b>	<b>Description</b>	<b>Last Revision Date</b>
	<b>LEGACY MATERIAL AND INSTALLATION STANDARDS</b>	
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1	Wood Poles	01/01/2018
7	Overhead Distribution Circuit Grounding	01/01/2018
10	Wood Crossarm	01/01/2018
11	Wood Crossarm (Steel Braces)	01/01/2018
20	Pin and Pin Insulator	01/01/2018
22	Miscellaneous Line Hardware	01/01/2018
24	Copper Conductor Hand-Made Insulator Ties	01/01/2018
25	Aluminum Conductor Hand-Made Insulator Ties	01/01/2018
26	Distribution Cutout	01/01/2018
27	Distribution Arrester Application	01/01/2018
28	Hot Line Clamp and Riser Assembly	01/01/2018
	<b>GUYING</b>	
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101	Double Down Guy and Anchor with Insulator	01/01/2018
104	Span Guy	01/01/2018
105	Span Guy with Insulator	01/01/2018
106	Span Guy with Insulator and Guy Plate	01/01/2018
109	Down Guy Fittings	01/01/2018
110	Guy Wire	01/01/2018
111	Fiberglass Guy Insulator and Grips	01/01/2018
112	Screw Anchor	01/01/2018
113	Pole Key	01/01/2018
114	Push Pole Brace Fitting	01/01/2018
115	Expanding Anchor	01/01/2018
	<b>TWO-PHASE CONSTRUCTION</b>	
200	Tangent and Angles Up to 5°	01/01/2018

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202	Medium Line Angles, 20° - 60°	01/01/2018
203	Alley Arm Construction	01/01/2018
204	Large Line Angles, 60° - 90°	01/01/2018
206	Deadend Assembly	01/01/2018
207	Double Deadend	01/01/2018
208	Two Phase Branch	01/01/2018
209	Two Way Buck	01/01/2018
210	Four Way Corner	01/01/2018
	<b>THREE-PHASE CONSTRUCTION – SPACER CABLE</b>	
300	14” Spacer Cable Tangent Bracket, Angles Up to 5°	01/01/2018
301	24” Spacer Cable Tangent Bracket, Angles Up to 5°	01/01/2018
302	14” Spacer Cable Tangent Bracket with Anti-Sway Bracket, Angles Up to 5°	01/01/2018
303	24” Spacer Cable Tangent Bracket with Anti-Sway Bracket, Angles Up to 5°	01/01/2018
304	Spacer Cable Deadend on Crossarm	01/01/2018
305	Spacer Cable to Spacer Cable Double Deadend on Crossarm	01/01/2018
306	Spacer Cable to Open Wire Double Deadend on Crossarm	01/01/2018
308	Spacer Cable Angle Bracket, 5° - 60°	01/01/2018
309	Spacer Cable Angle Bracket, Over 60°	01/01/2018
310	Spacer Cable Spacers	01/01/2018
311	Messenger Attachment to Crossarm	01/01/2018
	<b>THREE-PHASE CONSTRUCTION – CROSSARM</b>	
400	Tangent and Angles Up to 5°	01/01/2018
401	Small Line Angles, 5° - 20°	01/01/2018
402	Medium Line Angles, 20° - 60°	01/01/2018
403	Alley Arm Construction	01/01/2018
404	Large Line Angles, 60° - 90°	01/01/2018
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