

**Minutes**  
**Task Force: Aging of Lubricants Virtual Meeting**  
**9:00 AM – 10:30 AM (EDT), August 26, 2022**

1. Call meeting to order Jack Harley  
Meeting called to order at 9:05 AM (EDT).
2. Introduction of Members and Guests, and attendance Doug Edwards
  - Participants self-introductions with affiliations
  - Participants self-introductions with affiliations made.
3. Quorum verification D. Edwards
  - Quorum was met.
  - 11 of 22 members present at beginning of meeting. 12<sup>th</sup> member joined later in the meeting.
  - 12 guests present
4. Approval of Meeting Agenda Jack Harley
  - Agenda was approved via consent.
5. Call for patents, copyright issues Jack Harley
  - Discussed Copyright Policy.
  - No known issues identified.
6. Minutes D. Edwards

Approval of previous meeting minutes

  - [Orlando April 12, 2022](#)
    - Motion made by Ted Burse to approve minutes with Second.
    - Approved by consent.
  - [Virtual August 10, 2022](#)
    - Motion made by Jeff Ward to approve minutes with Second.
    - Approved by consent.
7. Scope for PAR review. Jack Harley

Draft Scope for discussion:

The information in this guide is intended to assist in developing methodologies for establishing the expected life of lubricants as used in equipment covered within the scope of the IEEE Power and Energy Society Switchgear Standards Committee including the following:

  - Automatic reclosers and sectionalizers
  - Current limiting devices
  - Fuses and cutouts
  - Gas-insulated switchgear
  - Metal-enclosed buses and all buses included in switchgear assemblies
  - Power circuit breakers
  - Switches, including pad-mounted switches
  - Switchgear assemblies
  - Switchgear devices

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Scope discussions included:

- Recommendation to consider stating, “in switchgear” instead of in Scope of Switchgear Committee – Accepted.
- Request to detail the applications of the lubricants in the Scope.
  - Lubricants to reduce friction, heat, and wear applications (mechanisms, sliding surfaces) are – original concept for this document.
  - Surface coating applications – Yes/No to include?

Decisions:

- Only cover “lubricants to reduce friction, heat, and wear” applications.
- Do not cover coating applications.
  
- Wordsmithing: “in switchgear” or “on switchgear” – Decision: “in switchgear”
- Potential addition to Scope – “recommendations for maintenance of the lubricants” – Decision: Not to include “and maintenance”.
- Keep the list all devices from the Switchgear Committee Scope – Decision: Yes include list from Switchgear Committee Scope but with addition of wording “including but not limited to:”

Scope developed during meeting:

The information in this guide is intended to assist in developing methodologies for establishing the expected life of lubricants as used in switchgear equipment including but not limited to:

- Automatic reclosers and sectionalizers
- Current limiting devices
- Fuses and cutouts
- Gas-insulated switchgear
- Metal-enclosed buses and all buses included in switchgear assemblies
- Power circuit breakers
- Switches, including pad-mounted switches
- Switchgear assemblies
- Switchgear devices

Lubricants used as a surface protectant, for applications other than reducing friction or wear, are not included.

8. Title Jack Harley  
Drafted title for discussion:

Guide For Provides Methodologies to Demonstrate the Expected Life of Lubricants Used in a Switching Devices

No discussions.

9. Purpose statement

No discussions.

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10. Develop concept for Table of Content

No discussions.

11. Review methodologies

- Other standards

Note: Request for reference to the following documents has been made (2022-08-19 to Jennifer Santulli - IEEE PES Switchgear Program Manager).

- Reference to IEC 60947-1 (2020-04), LV Swgr and Controlgear - Part 1 General Rules
- Reference to EN 50326 (2002-08), Conductors for overhead lines - Characteristics for greases
- Arrhenius equation concepts

No discussions.

12. Future discussion points

Jack Harley

Doodle Poll to be provided for next meeting.

13. Adjourn

Jack Harley

The meeting agenda was not completed but time was met.

- Motion made by Ted Burse to adjourn with Second.
- Approved by consent.

Meeting adjourned at 10:35 AM.

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<b>Role</b>	<b>LastName, FirstName</b>	<b>Company</b>	<b>8/26/2022</b>
Chair	Harley, John	FirstPower Group LLC	X
Secretary	Edwards, Doug	Siemens Industry, Inc.	X
Member (Voting)	Burse, Ted	Powell Industries, Inc	X
Member (Voting)	Carne, Clint	Schneider Electric	X
Member (Voting)	Eftink, Emily	Burns & McDonnell	
Member (Voting)	Flowers, Keith	Siemens Industry, Inc.	X
Member (Voting)	Grahor, Lou	Eaton Corporation	X
Member (Voting)	Hartzel, Ronald	Eaton Corporation	
Member (Voting)	Jarnigan, Christopher	Southern Company Services	
Member (Voting)	Lanning, Scott	S&C Electric	
Member (Voting)	Leccia, Brad	Eaton	
Member (Voting)	Livshitz, Albert	Qualus Power Services	X
Member (Voting)	Marzec, Peter	S&C Electric Co.	
Member (Voting)	Moser, Darryl	ABB	X
Member (Voting)	Orosz, Miklos	Myers Controlled Power	
Member (Voting)	Reid, Laura	Hubbell Power Systems	
Member (Voting)	Ricciuti, Anthony	Eaton Corporation	X
Member (Voting)	Riffe, Dave	Westinghouse Electric Company	
Member (Voting)	Rohr, Richard	Powell Electrical Systems	
Member (Voting)	Ward, Jeffrey	Doble Engineering Company	X
Member (Voting)	Webb, John	ABB	X
Member (Voting)	Weishuhn, William	ABB	X
Member (Non-Voting)	Ambrose, Chris	Federal Pacific	X
Member (Non-Voting)	Barfield III, Walter	Electric Power Research Institute	
Member (Non-Voting)	Blake, Randy	Hubbell	
Member (Non-Voting)	Bray, Elizabeth	Southern Company	
Member (Non-Voting)	Brunke, John	Power Engineers	
Member (Non-Voting)	Christian, Michael	ABB	X
Member (Non-Voting)	Di Lillo, Patrick	Consolidated Edison Co. of NY, Inc.	X
Member (Non-Voting)	Dunne, David	Schneider Electric	
Member (Non-Voting)	Dwyer, Bernie	PECO	
Member (Non-Voting)	Esco, Tanner	Eaton Corporation	
Member (Non-Voting)	French, Christopher	Eaton Corporation	
Member (Non-Voting)	Hall, John	Tennessee Valley Authority	X
Member (Non-Voting)	Hawkins, Tom	Siemens Industry, Inc.	
Member (Non-Voting)	Hetzer, Matthew	PEPCO	
Member (Non-Voting)	Hohnstadt, Benjamin	DTE	
Member (Non-Voting)	Hutchins, Roy	Southern Company Services	X
Member (Non-Voting)	Irwin, Todd	GE Grid Solutions	
Member (Non-Voting)	Jala, Roopendra Hemanth	S&C Electric Company	
Member (Non-Voting)	Keels, Thomas	kEElectric Engineering	
Member (Non-Voting)	May, Steven	Southern Company	X
Member (Non-Voting)	Meyer, Peter	S&C Electric Company	X
Member (Non-Voting)	Monroe, Andrew	Southern Company	

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Member (Non-Voting)	Nenning, Andrew	Omicron Electronics	
Member (Non-Voting)	Owens, John	3M	
Member (Non-Voting)	Owens, Mary	Eaton	
Member (Non-Voting)	Parks, Owen	ABB	X
Member (Non-Voting)	Pellerito, Thomas	DTE Energy	
Member (Non-Voting)	Peterson, Alan	Utility Service Corporation	
Member (Non-Voting)	Peterson, Andrew	ABB	
Member (Non-Voting)	Rakus, Paul	Eaton	
Member (Non-Voting)	Salinas, Alex	Doble/Vanguard	
Member (Non-Voting)	Shiller, Paul	FirstPower Group LLC	X
Member (Non-Voting)	Sippel, Kevin	Eaton Electric	
Member (Non-Voting)	Stemmerich, Joe	Trayer Engineering Corp.	
Member (Non-Voting)	Sullivan, Paul	Dupont	X
Member (Non-Voting)	Thomas, Christo	Schneider Electric	X
Member (Non-Voting)	Weeks, Casey	Siemens Energy	
Member (Non-Voting)	Weisker, Jan	Siemens Energy	
Member (Non-Voting)	Wen, Jerry	BC Hydro	
Member (Non-Voting)	Worthington, Charles	Hubbell Power Systems	
Member (Non-Voting)	Zehnder, Lukas	Hitachi	
Member (Non-Voting)	Zhang, Wei	Hitachi	X
Member (Non-Voting)	Zia, Danish	UL LLC	