

# IOGP S-754 Transformers (IEEE)

Questions for Manufacturers –  
JIP33 Public Review  
February 2025

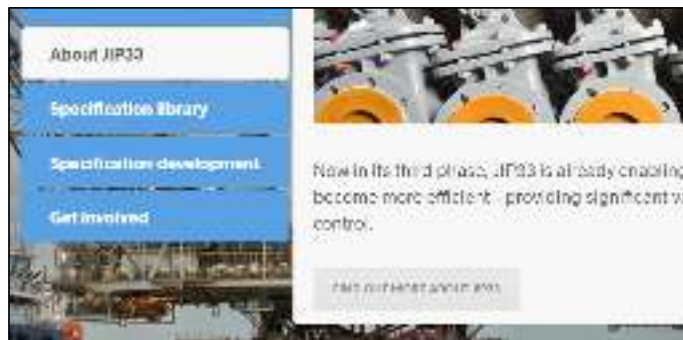
Tom Wren - Project Engineer



# Anti-trust/anti-competition

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- IOGP Competition Law Guidelines - available on the [JIP33 website](#).
- Do not share any cost or pricing details in the public review – contact PE directly.



## About Us

The JIP33 Work Groups perform their activities in accordance with **IOGP Competition Law Guidelines**

# IOGP S-754 – Specific Questions for Manufacturers (instructions)

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- In addition to your other comments on the specification in Jama, please provide responses to the questions on the following slides.
  - Please use Jama to provide this feedback by adding a comment in the referenced clause numbers.
  - Please comment on all 4 specification documents, don't just provide answers to these questions only.
- Remember no proprietary or commercial comments, the Jama review is public!
- Thank you in advance for your input.

# IOGP S-754 – Specific Questions for Manufacturers (1/4)

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- S-754 Normative Reference “ABS MODU, Publication Number 6 Part 4”:
  - Has ABS MODU been replaced with MOU Rules - Rules for Building and Classing Mobile Offshore Units?
  - Do you use this document to certify to?
- S-754 Clause 5.13.4 and 5.13.4 NOTE:
  - *“If the transformer is specified for offshore floating or marine applications, the transformer shall be provided in accordance with USCG 46 CFR 111.20 and ABS MODU Rules 4-3-4/9.”*
    - *“NOTE—Additional guidance and information for transformers installed on floating facilities in US territorial waters to USCG and ABS codes can be found in in API 14F or API 14FZ.”*
  - For transformers installed in floating offshore or marine applications is this the correct reference for the requirements for these applications - USCG 46 CFR 111.20 and ABS MODU Rules 4-3-4/9?
  - If not, what is the reference you use?
  - Do you normally or have you ever considered the requirements in API Recommended Practice 14F or API Recommended Practice 14FZ for transformers installed offshore?

# IOGP S-754 – Specific Questions for Manufacturers (2/4)

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- S-754 Clause 6.3.1.3:
  - *“Wiring for CTs shall be No. 12 AWG stranded copper or larger.”*
  - In the JIP33 S-743 MC Switchgear specification we changed to 12 AWG based on manufacturer feedback, and have done the same here with ANSI transformers.
  - What is your standard CT wiring size for transformers?
- S-754 Clause 6.5.3.8:
  - *“Tanks, compartments and radiators shall be suitable for vacuum filling at an external pressure of 101.325 kPa (one atmosphere), i.e., full vacuum.”*
  - What is the pressure requirement for vacuum filling in the field? (Is 1 atmosphere the right requirement?)
- S-754 Clause 6.14.3.4 and 6.14.3.5:
  - *“If provisions for future forced air-cooling fans are specified, the control cabinet shall be provided with the relays, motor starters, HOA controls, and interconnect wiring for fan operation.”*
  - *“If provisions for future forced air-cooling fans are specified, the control cabinet shall be provided with terminal blocks to facilitate field wiring and power supply interconnection.”*
  - What do you normally provide when requested to provide provisions for fans?

# IOGP S-754 – Specific Questions for Manufacturers (3/4)

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- S-754 Clause 6.15.1.6:
  - *“If a non-vacuum OLTC is specified, the OLTC oil vessel shall be provided with a protective device monitoring sudden-flow conditions.”*
  - When providing a non-vacuum OLTC on a power transformer, do you normally provide a separate sudden flow/pressure relay?
- S-754 Clause 6.16.6:
  - *“If the transformer is specified for offshore or marine applications, the transformer shall be designed in accordance with API RP 2A-WSD and API RP 2A-LRFD.”*
    - *“NOTE—Additional motions criteria (e.g., static/dynamic tilt, period, lateral/vertical acceleration) can be provided in the supplemental tab or project documents.”*
  - If the transformer is specified for offshore or marine applications, do you use the design requirements from API RP 2A-WSD and API RP 2A-LRFD for handling, lifting, or operating stresses? If not, what do you use?
- S-754 Clause 10.1.1:
  - *“Transformers less than 40 MVA shall be shipped filled with insulating liquid, except for conservator-type.”*
  - For a sealed tank unit, when do you ship the unit dry?
  - Is 40 MVA a good number for this cut-off value?

# IOGP S-754 – Specific Questions for Manufacturers (4/4)

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- S-754 Clause 10.1.2:
  - *“Transformers less than 40 MVA shall be shipped with the radiators attached to the transformer tank, except conservator-type.”*
  - For a sealed tank unit, when do you ship the unit with the radiators shipped loose?
  - Is 40 MVA a good number for this cut off value?
- S-754 Clause 12.1.8:
  - *“Indicating devices provided for determining the status of the pad-mounted transformer shall be viewable without exposing personnel to energized components.”*
  - For your standard pad-mounted transformer, is this a major change or minor change?
- S-754 Data sheet option - “Pad-mounted sampling location”
  - *Ability to select 2 options: “manufacturer standard” or “external from terminations”*
  - For pad mounted transformers is this a major or minor change?
- Is the transformer oil specified always applicable to the OLTC? (e.g., if natural ester is specified, does the OLTC also come with natural ester?)



For more information please contact:

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