



# EQ for combined regulatory framework and Stds



**Jorge Zorrilla**  
Technical Leader III

Q&A PRR workshop (China)

# How to address differences between RCC-E and 10 CFR 50.49...how different they really are?



**INTERNATIONAL  
STANDARD**

IEC IEEE 60780-323 current  
latest version of IEC and IEEE  
for qualification

Qualification  
according to RCC-E

([https://snetp.eu/wp-content/uploads/2022/06/SNETP\\_Forum\\_2022\\_TS2\\_p5\\_R\\_CCE\\_v2.pdf](https://snetp.eu/wp-content/uploads/2022/06/SNETP_Forum_2022_TS2_p5_R_CCE_v2.pdf))

The basis for RCC-E

10 CFR 50.49

(<https://www.nrc.gov/docs/ML2227/ML22272A602.pdf>)

Endorsed

IAEA SSG-69

[https://www-pub.iaea.org/MTCD/Publications/PDF/P1978\\_web.pdf](https://www-pub.iaea.org/MTCD/Publications/PDF/P1978_web.pdf)

Alignment

# Alignment of EQ Assessment Standards

## IEC/IEEE 60780-323 Standard

This dual-logo standard harmonizes EQ reassessment practices endorsed by NRC and referenced by IAEA and RCC-E code. Describes qualification methods and for reassessment of qualification.

- **Using conservatism**
- **Type testing on aged samples from the plant**
- **Performing type tests for extended qualified life**
- **Component replacement**

[AMP221 Equipment Qualification Preservation and Reassessment final 20240131.docx](#)

Describe interpretation and application of these methods

[AMP210 Condition Monitoring of Cables final 20240131.docx](#)

This document provides detailed guidance on this topic, including multiple references such as [Condition-Based Qualification of Class 1E Cables](#). AMP 210 also provides summary of condition monitoring techniques and their implementation in several countries, including China in the appendix 2

[https://gnssn.iaea.org/NSNI/PoS/IGALL/\\_layouts/15/WopiFrame.aspx?sourcedoc=%7BAB841C87-3351-4DD7-810B-61645733F7CB%7D&file=AMP221\\_Equipment\\_Qualification\\_Preservation\\_and\\_Reassessment\\_final\\_20240131.docx&action=default&CT=1764860345750&OR=DocLibClassicUI](https://gnssn.iaea.org/NSNI/PoS/IGALL/_layouts/15/WopiFrame.aspx?sourcedoc=%7BAB841C87-3351-4DD7-810B-61645733F7CB%7D&file=AMP221_Equipment_Qualification_Preservation_and_Reassessment_final_20240131.docx&action=default&CT=1764860345750&OR=DocLibClassicUI)

[https://gnssn.iaea.org/NSNI/PoS/IGALL/\\_layouts/15/WopiFrame.aspx?sourcedoc=%7B5BB2B48E-FDCC-4EB8-8F9E-A7D50B841570%7D&file=AMP210\\_Condition\\_Monitoring\\_of\\_Cables\\_final\\_20240131.docx&action=default&CT=1764169240827&OR=DocLibClassicUI](https://gnssn.iaea.org/NSNI/PoS/IGALL/_layouts/15/WopiFrame.aspx?sourcedoc=%7B5BB2B48E-FDCC-4EB8-8F9E-A7D50B841570%7D&file=AMP210_Condition_Monitoring_of_Cables_final_20240131.docx&action=default&CT=1764169240827&OR=DocLibClassicUI)

<https://www.epri.com/research/products/000000003002026361>



**TOGETHER...SHAPING THE FUTURE OF ENERGY®**

in X f  
[www.epri.com](http://www.epri.com)

© 2025 Electric Power Research Institute, Inc. All rights reserved.