

Study Committee A2

Power Transformers and Reactors

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RTE's experience on transformers and reactors procurement

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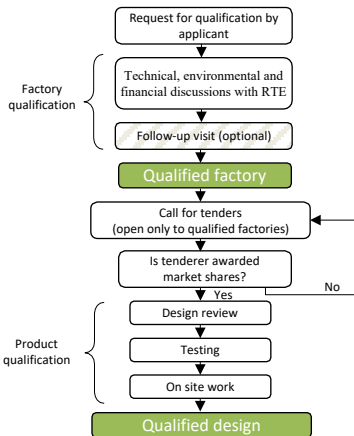
RTE

Motivation

- Supply quality equipment to ensure optimal quality of public service
- Screen factories capable of designing, producing and testing these units
- To have a robust, efficient and sustainable qualification process that can be replicated for each candidate
- Bonus: such standardization allows for more efficient bid analyses and design reviews.

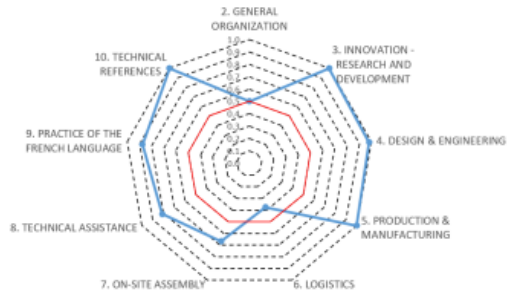
Method/Approach

- Method is standardized and described in the Figure below:



- Candidates are evaluated with three questionnaires (examples below) and answers are presented in a radar graph.

Method/Approach (cont'd)



Discussion

- All selected factories are reasonably satisfying and are working with RTE on a long-term basis.
- Weights of each criteria can be challenged: should priority be given to technical performance, environment, safety, innovation?
- Questionnaires are not enough: specifications are written to complete norms to allow for a non-biased comparison between all manufacturers, especially regarding test protocols.
- Design review and FAT remain the key phases to approve a design.
- Areas of improvement: to what extent the company's strategic decisions should have an influence on the questionnaires?

Conclusion

- Each step of the procedure shown opposite is an opportunity to have in-depth technical discussions and to ensure RTE will be able to purchase durable units.
- Having reliable and quality transformers and reactors is imperative for RTE to fulfill its missions as a TSO.
- This method has yielded great results so far with RTE benefiting from a reliable grid and accumulating deep technical knowledge about its assets.