§ 285.707 What are the CVA's primary duties for facility design review?

If you are required to use a CVA:
(a) The CVA must use good engineering judgment and practice in conducting an independent assessment of the design of the facility. The CVA must certify in the Facility Design Report to MMS that the facility is designed to withstand the environmental and functional load conditions appropriate for the intended service life at the proposed location.
(b) The CVA must conduct an independent assessment of all proposed:
(1) Planning criteria;
(2) Operational requirements;
(3) Environmental loading data;
(4) Load determinations;
(5) Stress analyses;
(6) Material designations;
(7) Soil and foundation conditions;
(8) Safety factors; and
(9) Other pertinent parameters of the proposed design.

(c) For any floating facility, the CVA must ensure that any requirements of the U.S. Coast Guard for structural integrity and stability (e.g., verification of center of gravity), have been met. The CVA must also consider:
(1) Foundations, foundation pilings and templates, and anchoring systems; and
(2) Mooring or tethering systems.

§ 285.708 What are the CVA's or project engineer's primary duties for fabrication and installation review?

(a) The CVA or project engineer must do all of the following:
(1) Use good engineering judgment and practice in conducting an independent assessment of the fabrication and installation activities;
(2) Monitor the fabrication and installation of the facility as required by paragraph (b) of this section;
(3) Make periodic onsite inspections while fabrication is in progress and verify the items required by §285.709;
(4) Make periodic onsite inspections while installation is in progress and satisfy the requirements of §295.710; and
(5) Certify in a report that project components are fabricated and installed in accordance with accepted engineering practices; your approved COP, SAP, or GAP (as applicable); and the Fabrication and Installation Report.

(i) The report must also identify the location of all records pertaining to fabrication and installation, as required in §285.714(c); and
(ii) You may commence commercial operations or other approved activities 30 days after MMS receives that certification report, unless MMS notifies you within that time period of its objections to the certification report.

(b) To comply with paragraph (a)(5) of this section, the CVA or project engineer must monitor the fabrication and installation of the facility to ensure that it has been built and installed according to the Facility Design Report and Fabrication and Installation Report.
(1) If the CVA or project engineer finds that fabrication and installation procedures have been changed or design specifications have been modified, the
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§ 285.709 When conducting onsite fabrication inspections, what must the CVA or project engineer verify?

(a) To comply with § 285.708(a)(3), the CVA or project engineer must make periodic onsite inspections while fabrication is in progress and must verify the following fabrication items, as appropriate:

1. Quality control by lessee (or grant holder) and builder;
2. Fabrication site facilities;
3. Material quality and identification methods;
4. Fabrication procedures specified in the Fabrication and Installation Report, and adherence to such procedures;
5. Welder and welding procedure qualification and identification;
6. Structural tolerances specified, and adherence to those tolerances;
7. Nondestructive examination requirements and evaluation results of the specified examinations;
8. Destructive testing requirements and results;
9. Repair procedures;
10. Installation of corrosion-protection systems and splash-zone protection;
11. Erection procedures to ensure that overstressing of structural members does not occur;
12. Alignment procedures;
13. Dimensional check of the overall structure, including any turrets, turret-and-hull interfaces, any mooring line and chain and riser tensioning line segments; and

(b) For any floating facilities, the CVA or project engineer must verify that proper procedures were used during the following:

1. The loadout of the jacket, decks, piles, or structures from each fabrication site; and
2. The actual installation of the facility or major modification and the related installation activities.

(c) For a floating facility, the CVA or project engineer must verify that proper procedures were used during the following:

1. The loadout of the facility;
2. The installation of foundation pilings and templates, and anchoring systems; and
3. The installation of the mooring and tethering systems.

(d) The CVA or project engineer must conduct an onsite survey of the facility after transportation to the approved location.

(e) The CVA or project engineer must spot-check the equipment, procedures,