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Subject:	Radiographic Requirements
Background:	None provided
Question:	Does API 650 para 8.1.2.2 a. require two radiographs be taken on the vertical seam in the lowest course; provided shell thickness is 5/16", there is only one vertical seam in the first course, and it represents the welders first 10 feet of completed weld?
DGM question restatement	Does 8.1.2.2 a. require two radiographs be taken on the vertical seam in the lowest course; provided shell thickness is less than or equal to 3/8", there is only one vertical seam in the first course, and it represents the welders first 10 feet of completed weld?
Draft reply	No. Only one radiograph is required in the lowest course vertical seam. Per Figure 8.1, note 3, The radiograph in the lowest course taken to satisfy the Note 1 spot radiograph requirement may be used to satisfy the Note 3 requirement for a radiograph in each vertical seam in the lowest course.
Need agenda item?	No

Notes:

1. Vertical spot radiograph in accordance with 8.1.2.2, Item a: one in the first 3 m (10 ft) and one in each 30 m (100 ft) thereafter, 25 % of which shall be at intersections.
2. Horizontal spot radiograph in accordance with 8.1.2.3: one in the first 3 m (10 ft) and one in each 60 m (200 ft) thereafter.
3. Vertical spot radiograph in each vertical seam in the lowest course (see 8.1.2.2, Item b). Spot radiographs that satisfy the requirements of Note 1 for the lowest course may be used to satisfy this requirement.
4. Spot radiographs of all intersections over 10 mm (³/₈ in.) (see 8.1.2.2, Item b).
5. Spot radiograph of bottom of each vertical seam in lowest shell course over 10 mm (³/₈ in.) (see 8.1.2.2, Item b).
6. Complete radiograph of each vertical seam over 25 mm (1 in.). The complete radiograph may include the spot radiographs of the intersections if the film has a minimum width of 100 mm (4 in.) (see 8.1.2.2, Item c).

Figure 8.1—Radiographic Requirements for Tank Shells