§192.227

This guide material under review following Amendment 192-125.

(1) It is the operator's responsibility to ensure that all welding is performed by qualified welders and welding operators.

(2) The ability of welders and welding operators to make sound welds should be determined by test welds using previously qualified welding procedures. The evaluation of test welds may be conducted by qualified operator personnel or testing laboratories.

(3) For steel transmission pipe, records of the qualification of each individual welder should include the welder's name and the welder's stencil or mark. The operator should consider identifying the specific welds produced by each individual welder and the locations of those welds.

Section 192.605

1 GENERAL

2 MAINTENANCE AND NORMAL OPERATIONS

In addition to those items required to be in the manual under Subparts L and M as they apply to the operator's facilities, other Subparts (e.g., E, F, I, J, and K) may also require written procedures. Additional guide material can be found under individual sections.

2.1 Control of corrosion.

2.2 Availability of construction records, maps, and operating history.

(a) Construction records, maps, and operating history should be comprehensive and current. The construction records, maps, and operating history will depend upon the individual operator, its size and locale, and the types of equipment in use. See guide material under §192.227 for records demonstrating the qualification of each individual welder at the time of construction of steel transmission pipe.

(b) The construction records, maps, and operating history should be made available to operating personnel, especially supervisors or those called on to safely operate pipeline facilities or respond to emergencies, or both. Dispatch or gas control personnel should have maps and operating history available.

(c) For transmission facilities, the types of records and data that should could be made available are as follows.

(1) Pipeline system maps, including abandoned and out-of-service facilities.
(2) Compressor station and other piping drawings (mechanical and major gas piping).
(3) Maximum allowable operating pressures.
(4) Inventories of pipe and equipment.
(5) Pressure and temperature histories.
(6) Maintenance history.
(7) Emergency shutdown systems drawings.
(8) Isolation drawings.
(9) Purging information.
(10) Applicable bolt torquing information.
(11) Operating parameters for engines and equipment.
(12) Leak history.
(d) For distribution systems, the types of records and data that should could be made available are as follows.
   (1) Maps showing location of pipe, valves, and other system components.
   (2) Maps and records showing pipe specifications, valve type, and operating pressure.
   (3) Auxiliary maps and records showing other useful information, including abandoned and out-of-service facilities.
(e) Communications with knowledgeable personnel should be maintained to respond to questions concerning the records, maps, or history if the need arises.
(f) Field identification of valves.
   (1) Valve identification criteria should be established.
   (2) Each operator should have available sufficiently accurate records (including field location measurements) to readily locate valves and valve covers.
   (3) Where valves are located in ....
      (i) A valve identification system....
      (ii) For above ground and vault applications....
      (iii) For remotely operated and underground valves....

2.3 Data gathering for incidents.
...

Section 192.709

(1) See Guide Material Appendix G-192-17 for the explicit requirements of each patrol, survey, inspection, or test required by Subparts L and M.
(2) See Also, see guide material under §192.947 for records required under Subparts I, L, and M to be used as part of the operator’s Integrity Management Program for transmission lines.
(3) See guide material under §192.227 for records demonstrating the qualification of each individual welder at the time of construction of steel transmission pipe.

GUIDE MATERIAL APPENDIX G-192-17

<table>
<thead>
<tr>
<th>E</th>
<th>192.225</th>
<th>Welding procedures</th>
<th>Written procedures, tests, records</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>192.227(b) Qualification of welders and welding operators</td>
<td>Test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>192.227(c) Individual welder qualification at time of construction of steel transmission pipe</td>
<td>Records</td>
<td></td>
</tr>
<tr>
<td></td>
<td>192.229(c) Limitations on welders and welding operators</td>
<td>Test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>192.241 Inspection and test of welds</td>
<td>Visual inspection, test</td>
<td></td>
</tr>
<tr>
<td></td>
<td>192.243 Nondestructive testing</td>
<td>Written procedures, test, records</td>
<td></td>
</tr>
<tr>
<td></td>
<td>192.285 Repair or removal of defects</td>
<td>Inspection, written procedures</td>
<td></td>
</tr>
</tbody>
</table>