

APPENDIX 112U1

**INDUSTRIAL PROCESS COOLING TOWERS NESHAP
(40 CFR 63 Subpart Q)**

CAA SECTION 112 NESHAP

REGULATION STATUS

EPA issued the Industrial Process Cooling Towers (IPCT) NESHAP on 08 Sep 94 (59 FR 46339). Subsequent corrections and amendments are reflected in the latest version of the Code of Federal Regulations, Volume 40, Part 63, Subpart Q and are also highlighted in Appendix 112B. Since this rule is not expected to affect military installations, the HAP Subcommittee does not plan to update this appendix in the future. Refer to the Internet links on the HAP Status Binder Web Page for this appendix for more detailed and up to date information on this rule.

RULE SUMMARY

This rule prohibits IPCT owners from using water treatment chemicals that contain chromium. The standard reads as follows: *"No owner or operator of an IPCT shall use chromium-based water treatment chemicals in any affected IPCT."*

The HAP Subcommittee does not expect this NESHAP to affect the Services. A survey of military facilities did not identify any existing military IPCTs that use chromium-based water treatment chemicals.

Applicability

The rule affects new and existing IPCTs that are either major HAP sources or are located on installations that are major HAP sources. Additionally, it only applies to those IPCTs that use (or will use at initial startup) chromium-based water treatment chemicals. This rule does not affect IPCTs that do not use chromium-based water treatment chemicals. You do not need to submit an initial notification for unaffected sources.

Key Definitions

Chromium-based water treatment chemicals means any combination of chemical substances containing chromium used to treat water.

Cooling tower means an open water recirculating device that uses fans or natural draft to draw or force ambient air through the device to cool warm water by direct contact.

Industrial process cooling tower, also written as "IPCT," means any cooling tower that is used to remove heat that is produced as an input or output of a chemical or industrial process(es), as well as any cooling tower that cools industrial processes in combination with any heating, ventilation, or air conditioning system.

New IPCT means any affected IPCT the construction or reconstruction of which commenced after August 12, 1993.

Reconstruction means the replacement of components of an affected or a previously unaffected IPCT to such an extent that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new IPCT.

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Water treatment chemicals means any combination of chemical substances used to treat water in cooling towers, including corrosion inhibitors, antiscalants, dispersants, and any other chemical substances used to treat water.

Standards

A summary of the requirements is not included in this appendix.

Compliance Deadlines

Table 1 summarizes the regulatory deadlines.

Table 1: Regulatory Deadlines for the IPCT NESHAP

| | Existing Sources ^a | New Sources Pre-Final Rule ^b | New Sources Post-Final Rule ^c |
|---|---|---|--|
| Submit Initial Notification | 9/8/95 | | 12 months after startup |
| Eliminate Chromium Use | 3/8/96 | 9/8/94 | Upon Startup |
| Submit Compliance Notification | 60 day after compliance is achieved and no later than 3/8/96. | | |
| ^a Deadlines apply to existing sources started up before 8/12/93 | | | |
| ^b Deadlines apply to new sources started up on or after 8/12/93 and before 9/8/94. | | | |
| ^c Deadlines apply to new sources started up on or after 9/8/94. | | | |

MILITARY SOURCES

The military does not have many IPCTs but has many comfort cooling towers (CCTs). For example, most military hospitals have CCTs which are not covered by this regulation. The Toxic Substances Control Act (TSCA) of 1990 (55 FR 222) already prohibits use of chromium-based water treatment chemicals in all CCTs. TSCA was unique in that it primarily prohibited chemical suppliers from selling chromium-based chemicals to buyers of CCT water treatment chemicals.

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