

Control standard for volatile organic compounds leakage from equipment

Abstract:

1. This standard specifies the control requirements for the leakage of volatile organic compounds from equipment and pipeline components in industrial enterprises, as well as implementation supervision.
2. This standard applies to the control and management of VOCs leakage in petroleum refining, petroleum chemistry, synthetic resin industry enterprises and other industries enterprises with a total number of controlled sealing points exceeding 2000 (inclusive).
3. New industrial enterprises from the date of implementation of this standard, existing industrial enterprises in the standard effective one year after the start of implementation.
4. The main control requirements covered by this standard are as follows:

(1) In terms of leakage concentration constraints

Mainly following the Yangtze River Delta integration standard “Technical specifications for the control of equipment leaks of volatile organic compounds” (DB/T 310007) in the leakage identified concentration requirements, but on this basis added the leakage level of controlling requirements.

(2) In terms of leakage components control

Focused on implementing further controls in two areas, strengthening the control of delayed leakage components; and for repeated leakage components put forward innovative requirements such as “pumps, compressors, mixers and valves with three serious leaks in 24 months of detection should be replaced with 4.1 low-leakage equipment within 90 days from the date of the third

identified leak”.

(3) In terms of operational specifications

Focus on the two key aspects of the project creating and field detection, the new addition of the number of controlled components error ratio requirements; clarify the normative requirements of field detection operations. eg: the number of controlled components that do not match the actual situation due to omissions and errors should not exceed 5% of the total number of controlled components.

(4) In terms of timeliness constraints

Increased the timeliness requirements for changes to the components ledger, clarifying the different components change scenarios, the timeliness for completing the revision of archived information and the management procedures for postponing the revision; tightened the timeliness requirements for repair and retesting of leaking components; increased the timeliness requirements for completing the repair of leaking points after being included in the delayed repair.