NFPA® 85
Boiler and Combustion Systems Hazards Code
2015 Edition

Reference: 8.9.2
TIA 15-1
(SC 14-8-20 / TIA Log #1136)

Note: Text of the TIA issued and incorporated into the text of the document, therefore no separate publication is necessary.

1. Revise 8.9.2 to read as follows:

8.9.2 Purge.

8.9.2.1 Unfired HRSG.

8.9.2.1.1 A purge of both the HRSG enclosure and the bypass system shall be completed as required in 8.8.4 prior to the admission of combustion turbine exhaust gas into the HRSG.

8.9.2.1.2 Following the purge as required in 8.9.2.1.1, it shall be permitted to interrupt the flow through the HRSG using the bypass stack.

8.9.2.1.3 Combustion turbine exhaust flow shall be permitted to re-enter the HRSG at a later time without repurging, provided the combustion turbine has been in continuous operation with no trips or misfires.

8.9.2.1.4 Where HRSG isolation is maintained and the combustion turbine operation has been interrupted, the combustion turbine shall be permitted to purge and operate with combustion turbine exhaust through the bypass stack.

8.9.2.1.4.1 When it is desired to return the HRSG to service, a purge of the HRSG enclosure shall be performed as required by 8.9.2.1.1.

8.9.2.1.4.2 After the purge of 8.9.2.1.4.1, an interruption as allowed by 8.9.2.1.2 shall be permitted.

8.9.2.1.4.3 Where the combustion turbine operation has been interrupted and it is desired to return the HRSG to service, the combustion turbine shall be permitted to continue operating and the combustion turbine exhaust shall be permitted to be used to purge the HRSG, provided the exhaust temperature is at least 56°C (100°F) lower than the autoignition temperature of the fuels designed for use in the specific combustion turbine.

8.9.2.2 Fired HRSG.

8.9.2.2.1 A purge of both the HRSG enclosure and the bypass system shall be completed as required in 8.8.4 prior to the admission of combustion turbine exhaust gas into the HRSG.

8.9.2.2.2 Where HRSG isolation is continuously maintained and the combustion turbine operation is interrupted, the combustion turbine shall be permitted to purge and operate with combustion turbine exhaust through the bypass stack.

8.9.2.2.2.1 When HRSG isolation is removed, a purge of the HRSG enclosure shall be performed as required by 8.9.2.2.1, except as permitted in 8.9.2.2.4.

(Note: For further information on NFPA Codes and Standards, please see www.nfpa.org/codelist)
8.9.2.2.2 Where the combustion turbine operation has been interrupted and it is desired to return the HRSG to service, the combustion turbine shall be permitted to continue operating and the combustion turbine exhaust shall be permitted to be used to purge the HRSG, provided the exhaust temperature is at least 56°C (100°F) lower than the autoignition temperature of the fuels designed for use in the specific combustion turbine and the duct burner.

8.9.2.2.3 Where the combustion turbine has been in continuous operation with no trips or misfires and it is desired to return the HRSG to service, the combustion turbine shall be permitted to continue to be operated and the combustion turbine exhaust may be used to purge the HRSG, provided the exhaust temperature is at least 56°C (100°F) lower than the autoignition temperature of the fuels designed for use in the duct burner.

8.9.2.2.3 If damper(s) operation or other cause(s) results in the exhaust mass flow through the HRSG falling below the purge rate required in 8.8.5, a repurge as required in 8.8.5 shall be performed prior to lighting the duct burner.

8.9.2.2.4* When it is desired that the HRSG be bypassed for a period of time and then for the HRSG to be returned to service by means of damper positioning without a power interruption, one of the following conditions shall be met:
   (1) A continuous flow of at least the purge rate of exhaust or fresh air shall be maintained through the HRSG when the combustion turbine is operating.
   (2) The combustion turbine is in operation without trips or misfires and the duct burner fuel system satisfies the isolation requirements for a combustion turbine purge credit in accordance with 8.8.4.6.

8.9.2.3* Returning HRSG to Service Where combustion turbine exhaust flow is to be reintroduced to the HRSG through operation of the stack diverter damper, the combustion turbine load and damper sequence of operation shall be in accordance with the HRSG manufacturer’s operating instructions.

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