

# Summary of Modifications/Changes in this Update

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U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

**DATE OF THIS VERSION (new)**

May 1, 2024

**TITLE OF DOCUMENT (new title if applicable):**

Steam Detail Drawing – SD232213-05 – End of Steam Line Drip Trap

**DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2017

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Revisions of Steam Detail

**SUMMARY OF CHANGES IN THIS VERSION:**

1. Correct detail to have the correct flow of steam and condensate.
2. Corrected diagrammatic location of strainer, trap, check valves, and isolation valves.

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## **DATE OF THIS VERSION (new)**

August 1, 2023

## **TITLE OF DOCUMENT (new title if applicable):**

Steam Detail Drawing – SD235239-03 - Natural Gas and Liquefied Petroleum Gas Burner and Igniter Fuel Standard Piping Diagram

## **DATE OF VERSION BEING SUPERSEDED (old):**

October 1, 2022

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Revisions of Steam Detail Drawings

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Increased height of steam vents from 2' to 10' above roof.
2. Added note: Ensure vents are at least 25' from any intakes.

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**DATE OF THIS VERSION:**

March 1, 2023

**TITLE OF DOCUMENT:**

Standard Details (PG-18-14), Division 23 HVAC/Steam

**DATE OF VERSION BEING SUPERSEDED (old):**

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

New standard details for Division 23.

**SUMMARY OF CHANGES IN THIS VERSION:**

1. SD233100-31: Duct Smoke Detector
2. SD233100-32: Smoke Detector/Air Diffuser Minimum Distance
3. SD233100-33: Typical Smoke Detector Mounting Detail

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**DATE OF THIS VERSION (new)**

February 1, 2022

**TITLE OF DOCUMENT (new title if applicable):**

Steam Detail Drawing – SD235011-02 Chemical Feed System - Pumped Type

**DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2017

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Revisions of Steam Detail Drawings

**SUMMARY OF CHANGES IN THIS VERSION:**

1. This is a complete revision of the old detail.

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## **DATE OF THIS VERSION (new)**

October 1, 2022

## **TITLE OF DOCUMENT (new title if applicable):**

Steam Pressure Reducing Station Double Valve ( 1/3 & 2/3), SD232213-01

## **DATE OF VERSION BEING SUPERSEDED (old):**

August 1, 2022

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated Title block
2. Removed “ 25’/100’ ” from Note 5.
3. Updated Designer’s Note N3 to remove explicit pressure and replaced with “protecting the downstream system from over pressurization”.

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**DATE OF THIS VERSION (new)**

October 1, 2022

**TITLE OF DOCUMENT (new title if applicable):**

Natural Gas and Liquefied Petroleum Gas – Burner and Igniter Fuel, SD235239-03

**DATE OF VERSION BEING SUPERSEDED (old):**

June 1, 2022

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

**SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated Title block
2. Removed ½" pressure gage (instrumentation panel) connection from the Main Gas Line just after High Pressure SW.

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## **DATE OF THIS VERSION (new)**

August 1, 2022

## **TITLE OF DOCUMENT (new title if applicable):**

Standard Steam Boiler Plant Piping Diagram, SD232111-03

## **DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2017

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated Title block
2. Updated steam lines to properly reflect correct steam pressure class.
3. Removed Water Fill Connection from the Master Steam Header? Also removed pipe steam to the control panels as this can be handled through the use of controls/BAS.
4. Added Air-Gap requirements to drawing.
5. Rearranged valves and reducers on PRV piping to show properly.
6. Added additional piping and valves to the Boiler Drain Line to a floor drain.
7. LP steam, fuel-oil heaters, and Fuel Oil Tank heaters with associated equipment were removed.
8. Steam line and associated equipment for Soot blower was removed.

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**DATE OF THIS VERSION (new)**

August 1, 2022

**TITLE OF DOCUMENT (new title if applicable):**

Boiler Feedwater Pumps Flow Diagram, SD232111-07

**DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2017

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

**SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated Title block
2. Rearranged equipment to ensure properly show.
3. Added flex connection to discharge of pump.
4. Added valve to discharge of pump.
5. Updated Emergency Boiler Connection.



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## **DATE OF THIS VERSION (new)**

August 1, 2022

## **TITLE OF DOCUMENT (new title if applicable):**

Steam Pressure Reducing Station Double Valve (1/3 and 2/3), SD232213-01

## **DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2017

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated Title block
2. Change "Notes" notations for easier understanding.
3. Added additional valves to ensure proper isolation throughout.
4. Moved reducer to proper position to reduce noise from PRV stations.

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## **DATE OF THIS VERSION (new)**

June 1, 2022

## **TITLE OF DOCUMENT (new title if applicable):**

Natural Gas and Liquefied Petroleum Gas – Burner and Igniter Fuel, SD235239-03

## **DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2017

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Updated Title block
2. Moved LP-Gas tanks and associated equipment and piping inside building to its own space.
3. Moved Emergency Gas Safety Shut-off Valve and Earthquake Automatic Gas Shut-off Valve to the inside of building.
4. Provided exit door to the outside of building directly from the room holding the LP-Gas Tanks.
5. Added references NFPA 54 and 58.

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## **DATE OF THIS VERSION (new)**

November 1, 2021

## **TITLE OF DOCUMENT (new title if applicable):**

Fire Protection for Ceiling Outlets, SD230711-01, Hoistway Vent Damper (HVD) Controls, SD230923-08

## **DATE OF VERSION BEING SUPERSEDED (old):**

December 1, 2008

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Removal of Fire Protection/HVAC Details

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Removed SD230711-01 Fire Protection for Ceiling Outlets - Rated ceiling assemblies are not permitted by the VA Fire Protection Design Manual
2. Removed SD230923-08 Hoistway Vent Damper (HVD) Controls – This has been removed from International Building Code and is not a Life Safety Code requirement.

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**DATE OF THIS VERSION (new)**

October 1, 2021

**TITLE OF DOCUMENT (new title if applicable):**

Fire Damper at Floor Penetration Section Detail

**DATE OF VERSION BEING SUPERSEDED (old):**

N/A

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Addition of Fire Protection/HVAC Detail

**SUMMARY OF CHANGES IN THIS VERSION:**

1. SD233100-30
  - Added vertical detail of Fire Damper. Prior to addition, only horizontal detail of Fire Damper existed.

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**DATE OF THIS VERSION (new)**

September 1, 2021

**TITLE OF DOCUMENT (new title if applicable):**

Revisions of select Steam Detail Drawings

**DATE OF VERSION BEING SUPERSEDED (old):**

Varies

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Revisions of Steam Detail Drawings

**SUMMARY OF CHANGES IN THIS VERSION:**

1. SD235239-04
  - Removed Fuel Oil Return Line.
  - Moved pressure gauge from FOR line to FOS line.

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**DATE OF THIS VERSION (new)**

December 1, 2020

**TITLE OF DOCUMENT (new title if applicable):**

Revisions of select Steam Detail Drawings

**DATE OF VERSION BEING SUPERSEDED (old):**

Varies

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Revisions of Steam Detail Drawings

**SUMMARY OF CHANGES IN THIS VERSION:**

1. SD235239-04
  - Added label to SIGHTGLASS, due to RFI asking to identify.

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## DATE OF THIS VERSION (new)

November 1, 2020

## TITLE OF DOCUMENT (new title if applicable):

Revisions of select Steam Detail Drawings

## DATE OF VERSION BEING SUPERSEDED (old):

Varies

## DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Revisions of Steam Detail Drawings

## SUMMARY OF CHANGES IN THIS VERSION:

1. SD232111-02
  - Changed Union between Safety Valve and VTR to 4-Bolt Flanged Outlet.
  - Updated Details Sheet.
2. SD232111-03
  - Removed DIAMETERS OF STRAIGHT PIPE NOTE at PRV Station and replaced with a note pointing to detail SD232213-01.
  - Added Stop Valve after Stop Check Valve coming off the Boiler.
  - Updated note for Future Boiler Connection as well as the Connection on the detail.
  - Showing Pressure Transmitter and Gage and removed note.
  - Showing stop valve and removed note.
  - Updated Details Sheet.
3. SD232111-06
  - Replaced existing note with MAINTAIN A STEADY PRESSURE IN THE DA TANK BY SETTING UPSTREAM PRV TO MAINTAIN DESIRED PRESSURE IN THE DA TANK. PRESSURE IS USED TO MAINTAIN TEMPERATURE. TEMPERATURE SHALL NOT BE USED TO REGULATE THE PRESSURE Connection To Domestic Water Booster Heater.
  - Added Title to Water Level Control/Alarm Points part of sketch.

- Updated Details Sheet.
4. SD232111-08
    - Removed note regarding Control Valves.
    - Removed valve just before 90, but after initial stop valve on FWPD line.
    - Removed VTR from PRV-1.
    - Added note regarding how to drain PRV-1
    - Updated Details Sheet
  5. SD232213-01
    - Added isolation valve after PSV, for testing.
    - Reduced D1 & D2 by half.
    - Added additional Designer Notes.
    - Updated Details Sheet.
  6. SD232213-04
    - Updated Details Sheet.
  7. SD235239-04
    - Moved FO Pressure Control Valve to end of line after last boiler from discharge of FO Pumps.
    - Added range for thermometer at FO Pumps Suction prior to strainers.
    - Added a keyed note regarding the Atomizing Media Interlock Switch.
    - Added test ports and caps to FOS line at the Safety Shut-off Valves.
    - Added a keyed note regarding Flex Hose from Plant Air or HPS line.
    - Updated Details Sheet



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**DATE OF THIS VERSION (new)**

February 1, 2017

**TITLE OF DOCUMENT (new title if applicable):**

HOOD TYPE "B", SD233100-20

**DATE OF VERSION BEING SUPERSEDED (old):**

December 1, 2015

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

AutoCAD Detail of HOOD TYPE "B"

**SUMMARY OF CHANGES IN THIS VERSION:**

1. Revised metric/SI conversions as many were not converted correctly.