PG-58.3.2 For an isolable or separately fired superheater that discharges steam directly to a process stream, the stop valve required by PG-58.3 and the safety valve(s) required by PG-68 may be omitted, provided the following conditions are satisfied:

(a) The boiler is a drum-type boiler in a single-boiler installation.

(b) The steam discharge passes through the process stream to the atmosphere with no intervening valves.

(c) The system shall be designed so that the process stream through which the steam discharge passes cannot be obstructed in such a way as to cause the pressure in the superheater to exceed that permitted by PG-67.2, with maximum steam flow from the boiler to the superheater. Flow and pressure calculations demonstrating that the superheater will not be overpressurized under any steam flow conditions shall be documented and made available to the Inspector. These calculations shall be certified by a Professional Engineer experienced in the mechanical design of power plants.

(d) There is no valve on the discharge side of the superheater.

(e) Section I jurisdiction shall include the pressure parts between and including the superheater inlet valve and the outlet at

1. The first circumferential joint for welding end connections
2. The face of the first flange in bolted flange connections or
3. The first threaded joint in that type of connection

In the case of a single boiler and prime mover installation, the stop valve required herein may be omitted provided the prime mover stop valve or throttle valve:

(a) is equipped with an indicator to show whether the valve is open or closed and,

(b) is designed to withstand the required hydrostatic pressure test of the boiler.

The limit of boiler external piping ends at the connection to such prime mover valves and does not include the connection.

PG-58.3 Inlet BEP. When two or more boilers are connected to a common steam header, or when a single boiler is connected to a header having another steam source (e.g., a turbine extraction line), the connection from each steam source shall be through a stop valve(s) required by PG-58.3 and the safety valve(s) required by PG-68 may be omitted, provided the following conditions are satisfied:

1. The stop valve required by PG-58.3 and the safety valve(s) required by PG-68 may be omitted provided the prime mover stop valve or throttle valve:

   (a) is equipped with an indicator to show whether the valve is open or closed and,

   (b) is designed to withstand the required hydrostatic pressure test of the boiler.

   The limit of boiler external piping ends at the connection to such prime mover valves and does not include the connection.

PG-58.4 Outlet BEP. The steam piping connected to the boiler drum or to the superheater outlet header shall extend up to and including the first stop valve in each connection.

PG-58.4.1 On a single boiler turbine unit installation, the stop valve required by PG-58.3 in the discharge line to the superheater shall include the pressure drop between the stop valve and the free blow drain valve.

PG-58.4.2 If a feedwater heater or heaters meeting PG-58.4.3 are connected to the boiler feedwater piping, the stop valve required by PG-58.3 in the discharge line to the superheater and the stop valve required by PG-68 may be omitted, provided the following conditions are satisfied:

1. The stop valve required by PG-58.3 and the safety valve(s) required by PG-68 may be omitted, provided the prime mover stop valve or throttle valve:

   (a) is equipped with an indicator to show whether the valve is open or closed and,

   (b) is designed to withstand the required hydrostatic pressure test of the boiler.

   The limit of boiler external piping ends at the connection to such prime mover valves and does not include the connection.

PG-58.4.3 When two or more boilers are connected to a common steam header, or when a single boiler is connected to a header having another steam source (e.g., a turbine extraction line), the connection from each steam source shall be through a stop valve(s) required by PG-58.3 and the safety valve(s) required by PG-68 may be omitted, provided the following conditions are satisfied:

1. The stop valve required by PG-58.3 and the safety valve(s) required by PG-68 may be omitted, provided the prime mover stop valve or throttle valve:

   (a) is equipped with an indicator to show whether the valve is open or closed and,

   (b) is designed to withstand the required hydrostatic pressure test of the boiler.

   The limit of boiler external piping ends at the connection to such prime mover valves and does not include the connection.
EXISTING:
In the case of a single boiler and prime mover installation, the stop valve required herein may be omitted provided the prime mover stop valve or throttle valve is equipped with an indicator to show whether the valve is open or closed and is designed to withstand the required hydrostatic pressure test of the boiler. The limit of boiler external piping ends upstream of such prime mover valve(s) and does not include the connection.

PROPOSED:
In the case of a single boiler and prime mover installation, the stop valve required herein may be omitted provided the prime mover stop valve or throttle valve
  a. is equipped with an indicator to show whether the valve is open or closed
  b. is designed to withstand the required hydrostatic pressure test of the boiler
The limit of boiler external piping ends at the connection to such prime mover valves and does not include the connection.
B31.1 SGD also suggested adding a sentence stating that the connection to the valve is considered NBEP. This was not incorporated for a couple of reasons. First, we do not do that in the text anywhere else in the book. Second, the Figures [PG-58.2-1, PG-58.2-4, PG-58.2-5, and PG-58.2-6 (changed in 19-1587)] already show the connection with an open circle which denotes NBEP.