

(3) STORAGE TANKS CONSTRUCTED AFTER THE EFFECTIVE DATE OF THIS RULE MUST MEET THE FOLLOWING REQUIREMENTS:

MEET OR EXCEED THE 2021 VERSION OF THE NFPA NO. 30 REQUIREMENTS AND ONE OF THE FOLLOWING DESIGN AND MANUFACTURING STANDARDS: UL NO. 142, STEEL ABOVEGROUND TANKS FOR FLAMMABLE AND COMBUSTIBLE

ENGINEERING FIRM F-15564

API STANDARD 650, WELDED STEEL TANKS FOR OIL STORAGE (2020); API STANDARD 620, DESIGN AND CONSTRUCTION OF LARGE WELDED, LOW-PRESSURE TANKS (2013 WITH ADDENDUM 1 (2014), 2 (2018), AND 3 (2021)); OR

ANOTHER STANDARD APPROVED BY ECOLOGY, AS LONG AS THE REQUIREMENTS IN SUCH STANDARD EQUAL OR EXCEED THOSE REQUIRED IN THIS SECTION. MUST BE DESIGNED TO MEET THE FOLLOWING SEISMIC DESIGN REQUIREMENTS:

API STANDARD 650 (2020) SEISMIC DESIGN REQUIREMENTS. INCLUDING ANNEX E AND SECTION E.7.3 PIPING FLEXIBILITY; AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7-22 RISK CATEGORY III OR IV,

INCLUDING SITE CLASS A, B, C, D, E, OR F BASED ON ON-SITE SOIL PROPERTIES, AND MEET SEISMIC DESIGN REQUIREMENTS UNDER CHAPTER 16 OF THE 2021 INTERNATIONAL BUILDING CODE (IBC) AND WAC 51-50-1613 AND 51-50-1615; AND

RESIST TSUNAMIS BASED ON THE FACILITY'S RISK AREA USING A TSUNAMI HAZARD TOOL OR A TSUNAMI DESIGN ZONE MAP, AND MEET TSUNAMI REQUIREMENTS UNDER CHAPTER 16 OF THE 2021 IBC AND WAC 51-50-1613 AND 51-50-1615.

CLOSE DURING SEISMIC EVENTS; OR ANOTHER SEISMIC PROTECTION MEASURE PROPOSED BY THE FACILITY AND

APPROVED BY ECOLOGY, AS LONG AS SUCH PROTECTION MEASURE EQUALS OR EXCEEDS THOSE REQUIRED IN THIS SECTION.

PIPELINES REPLACED, RELOCATED, OR CONSTRUCTED AFTER THE EFFECTIVE DATE OF THIS RULE, WHICH ARE LOCATED IN AREAS NOT CONTROLLED BY THE FACILITY, MUST BE INSTALLED IN ACCORDANCE WITH 49 C.F.R. PARTS 195.202 (1981), 195.204 (2015), 195.205 (2015), 195.206 (1981), 195.207 (2015), 195.208 (1998), 195.210 (1998), 195.212 (1998), 195.214 (2017), 195.216 (1981), 195.222 (2017), 195.224 (1981), 195.226 (1981), 195.228 (2015), 195.230 (1983), 195.234 (2015), 195.246 (2004), 195.248 (2017), 195.250 (1998), 195.252 (2003), 194.254 (1981), AND 195.256 (1981), WHERE FEASIBLE.

(5) PIPELINES CONSTRUCTED AFTER THE EFFECTIVE DATE OF THIS RULE MUST ALSO: BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE ASME STANDARD FOR PRESSURE PIPING ASME B31.3 - 2022 (2023) OR B31.4 - 2022 (2022), OR ANOTHER STANDARD APPROVED BY ECOLOGY, AS LONG AS THE REQUIREMENTS IN SUCH STANDARD EQUAL OR EXCEED THOSE REQUIRED IN THIS SECTION;

BE DESIGNED TO API STANDARD 650 (2020), ANNEX E, SECTION E.7.3 PIPING FLEXIBILITY WHEN CONNECTED TO STORAGE TANKS;

BE INSTALLED UNDER THE PROVISIONS OF CHAPTER 57 OF THE 2021 IFC,

WHERE APPLICABLE, AND INCLUDE ONE OR MORE OF THE FOLLOWING: FLEXIBLE MECHANICAL DEVICE(S) OR ADEQUATE PIPELINE FLEXIBILITY BETWEEN

PIPELINE SUPPORTS THAT PROTECT AGAINST SEISMIC MOTION;

AUTOMATIC EMERGENCY ISOLATION SHUTOFF VALVES THAT ARE TRIGGERED TO CLOSE DURING SEISMIC EVENTS; OR

ANOTHER SEISMIC PROTECTION MEASURE PROPOSED BY THE FACILITY AND APPROVED BY ECOLOGY, AS LONG AS SUCH PROTECTION MEASURE EQUALS OR EXCEEDS THOSE REQUIRED IN THIS SECTION.

RESIST TSUNAMIS BASED ON THE FACILITY'S RISK AREA USING A TSUNAMI HAZARD TOOL OR A TSUNAMI DESIGN ZONING MAP.

(A) TRANSFERS OIL TO A NONRECREATIONAL VESSEL WITH A CAPACITY OF 10,500 OR MORE GALLONS OF OIL WHETHER THE VESSEL'S OIL CAPACITY IS USED FOR FUEL, LUBRICATION OIL, BILGE WASTE, OR SLOPS OR OTHER WASTE OILS;

(B) DOES NOT TRANSFER OIL IN BULK TO OR FROM A TANK VESSEL OR PIPELINE:

(C) DOES NOT INCLUDE ANY: BOATYARD, RAILROAD CAR, MOTOR VEHICLE, OR OTHER ROLLING STOCK WHILE TRANSPORTING OIL OVER THE HIGHWAYS OR RAIL LINES OF THIS STATE: UNDERGROUND STORAGE TANK REGULATED BY ECOLOGY OR A LOCAL GOVERNMENT UNDER CHAPTER 70A.355 RCW: OR A MOTOR VEHICLE MOTOR FUEL OUTLET: OR A FACILITY THAT IS OPERATED AS PART OF AN EXEMPT AGRICULTURAL ACTIVITY AS PROVIDED IN RCW 82.04.330.

(11) "CLASS 4 FACILITY" MEANS A STRUCTURE THAT:

(A) IS A MARINA, BOATYARD, MARINE FUELING OUTLET, AND OTHER FUELING INSTALLATION THAT TRANSFERS TO A NONRECREATIONAL VESSEL WITH A CAPACITY TO HOLD LESS THAN 10,500 GALLONS OF OIL WHETHER THE VESSEL'S OIL CAPACITY IS USED FOR FUEL, LUBRICATION OIL, BILGE WASTE, OR SLOPS OR OTHER WASTE OIL;

(B) DOES NOT TRANSFER OIL IN BULK TO OR FROM A TANK VESSEL OR PIPELINE:

(C) DOES NOT INCLUDE ANY: RAILROAD CAR, MOTOR VEHICLE, OR OTHER ROLLING STOCK WHILE TRANSPORTING OIL OVER THE HIGHWAYS OR RAIL LINES OF THIS STATE; UNDERGROUND STORAGE TANK REGULATED BY ECOLOGY OR A LOCAL GOVERNMENT UNDER CHAPTER 70A.355 RCW; OR A MOTOR VEHICLE MOTOR FUEL OUTLET; OR A FACILITY THAT IS OPERATED AS PART OF AN EXEMPT AGRICULTURAL ACTIVITY AS PROVIDED IN RCW 82.04.330.

(13) "CRUDE OIL" MEANS ANY NATURALLY OCCURRING HYDROCARBONS COMING FROM THE EARTH THAT ARE LIQUID AT 25 DEGREES CELSIUS AND ONE ATMOSPHERE OF PRESSURE INCLUDING, BUT NOT LIMITED TO, CRUDE OIL, BITUMEN AND DILUTED BITUMEN, SYNTHETIC CRUDE OIL, AND NATURAL GAS WELL CONDENSATE.

(24) "OIL" OR "OILS" MEANS OIL OF ANY KIND THAT IS LIQUID AT 25 DEGREES CELSIUS AND ONE ATMOSPHERE OF PRESSURE AND ANY FRACTIONATION THEREOF INCLUDING, BUT NOT LIMITED TO, CRUDE OIL, BITUMEN, SYNTHETIC CRUDE OIL, NATURAL GAS WELL CONDENSATE, PETROLEUM, GASOLINE, FUEL OIL, DIESEL OIL, BIOLOGICAL OILS AND BLENDS, OIL SLUDGE, OIL REFUSE, AND OIL MIXED WITH WASTES OTHER THAN DREDGED SPOIL. OIL DOES NOT INCLUDE ANY SUBSTANCE LISTED IN TABLE 302.4 OF 40 C.F.R. PART 302 ADOPTED AUGUST 14, 1989, UNDER SECTION 102(A) OF

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THE FEDERAL COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND

REFINING/PROCESSING UNITS OF A CLASS 1 FACILITY, PROCESS UNIT TO TANKAGE PIPING, AND TANKAGE INTERCONNECTING PIPING (TANK TO TANK). PROCESS PIPING DOES NOT INCLUDE TRANSFER PIPELINES USED TO TRANSPORT OIL TO OR FROM A

(43) "TRANSFER" MEANS ANY MOVEMENT OF OIL IN BULK TO OR FROM A

(44) "TRANSFER PIPELINE" IS A BURIED OR ABOVEGROUND PIPELINE USED TO CARRY OIL TO OR FROM A TANK VESSEL OR TRANSMISSION PIPELINE, OR TO A VESSEL AND THE FIRST VALVE INSIDE SECONDARY CONTAINMENT AT THE FACILITY PROVIDED THAT ANY DISCHARGE ON THE FACILITY SIDE OF THAT FIRST VALVE WILL NOT DIRECTLY IMPACT WATERS OF THE STATE. A TRANSFER PIPELINE INCLUDES VALVES, AND OTHER APPURTENANCES CONNECTED TO THE PIPELINE, PUMPING UNITS, AND FABRICATED ASSEMBLIES ASSOCIATED WITH PUMPING UNITS. A TRANSFER PIPELINE DOES NOT INCLUDE PROCESS PIPING. PIPELINES CARRYING BALLAST OR BILGE WATER, TRANSMISSION PIPELINES, TANK VESSEL, OR STORAGE TANKS. INSTANCES WHERE THE TRANSFER PIPELINE IS NOT WELL DEFINED WILL BE DETERMINED ON A

OR INTRASTATE, THROUGH WHICH OIL MOVES IN TRANSPORTATION, INCLUDING MAINLINE, LATERALS, VALVES, AND OTHER APPURTENANCES SUCH AS PUMPING UNITS, AND FABRICATED ASSEMBLIES ASSOCIATED WITH PUMPING UNITS METERING AND DELIVERY STATIONS AND FABRICATED ASSEMBLIES THEREIN, AND BREAKOUT

**JENGINEERING** CONSULTING ENGINEERS 503-254-0110 IRVINE, CALIFORNIA TEXAS REGISTERED

PORTLAND, OREGON

SEE WAC CHAPTER 173-180 REGULATIONS FOR ALL DETAILS AND REQUIREMENTS. THIS DOCUMENT IS INTENDED FOR A BRIEF OVERVIEW ON THE REQUIREMENTS.

REFERENCE | NOTES

					ENGINEERING RECORD	DAT
					DRAWN BY: -	_
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REVISION DESCRIPTION

WASHINGTON DEPARTMENT OF ECOLOGY WAC 173-180 FACILITY OIL HANDLING STANDARDS COMPLIANCE REFERENCE

DWG.NO. NOR-WAC-001 AS NOTED