

LIST of NTES EXCEL PROGRAM

Doc. No.	LS - NEP - 100		
Date	2019. 5. 1.		
Rev.	0	1	
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Area : Vessel

File Name	Description	Remarks
<u>Data Sheet</u>		
data sheet Blowdown Tank	sizes Blowdown Tank	
data sheet Flash Tank	sizes Flash Tank	
data sheet Orifice	sizes Orifice	
data sheet Pipe Distributor	sizes Pipe Distributor such as Header and Manifold	
data sheet SD +Cyclone +Demister	sizes Cyclone + Demister	
data sheet SD Internals	sizes Steam Drum Internals	
data sheet Silencer	sizes Steam Vent Silencer	
data sheet Steam Drum	sizes Steam Drum	
data sheet Vacuum Breaker	sizes Vacuum Breaker	
data sheet VSL H	produces Data Sheet of Vessel, Horizontal Type	
data sheet VSL V	produces Data Sheet of Vessel, Vertical Type	
data sheet Tank Rect.	produces Data Sheet of Rectangulat Tank	
data sheet Tank V	produces Data Sheet of Vertical Cylindrical Tank	
<u>Calculation</u>		
calculation BWC boiler	calculates Boiler Water Circulation	
cal. hold-up volume & retention time VSL	calculates Hold-up Volume & Retention Time for Vessel	
cal. Hydraulics in Piping	calculates Typical Hydraulics in Piping	
cal. Noise	calculates Noise of Vent discharged to Atmosphere	
cal. Thermal Expansion HE	calculates Thermal Expansion for S&T Type H/E	
cal. Thermal Expansion PV	calculates Thermal Expansion for Vessel and Typical Equipment	
TC Gas Duct insu	calculates Wall Temperatures of Duct to determine Insulation Thickness	
TC VSL H insu	calculates Wall Temperatures of Horizontal Vessel to determine Insulation Thickness	
TC VSL V insu	calculates Wall Temperatures of Vertical Vessel to determine Insulation Thickness	

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Area : **Heat Exchanger**

File Name	Description	Remarks
<u>Thermal Design</u>		
TD HE ACHE	Thermal Design of Air Cooled Heat Exchanger	
TD HE COHE	Thermal Design of Coil immersed in Tank	
TD HE FWH	Thermal Design of Feedwater Heater	
TD HE S&T	Thermal Design of Shell & Tube Type H/E	
TD HE SSC	Thermal Design of Steam Surface Condenser	
TD HE SWHB	Thermal Design of S&T Type Waste Heat Boiler	
TD HE THE	Thermal Design of Tubular H/E such as Economizer, Gas Air Heater	
HETD DPHE	Thermal Design of Double Pipe H/E	
<u>Calculation</u>		
cal. U-tube	calculates Lengths of U-tubes to be installed	
<u>Data Sheet</u>		
data sheet By-pass Damper WHB	calculates Performance of Gas By-pass Damper	
data sheet PGDS SWHB	produces Performance Guarantee Data Sheet	
data sheet PSV HE S&T	produces PSV Data Sheet	
sizing vent pipe FWH	sizes Vent Pipe for Fedwater Heater	
<u>EOM</u>		
O&M FWH	produces Operation and Maintenance Manual for Feedwater Heater	
O&M S&T	produces Operation and Maintenance Manual for Shell & Tube Type H/E	
O&M THE air	produces Operation and Maintenance Manual for Tubular H/E for Air Service	
<u>Process Flow Diagram</u>		
pfd form trans.	produces Typical Process Flow Diagram around H/E	
<u>PTC</u>		
PTC FWH	produces Performance Test Procedure for Feedwater Heater	
PTC single phase HE	produces Performance Test Procedure for single phase HE	

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Area : **Boiler**

File Name	Description	Remarks
<u>Thermal Design</u>		
TD Boiler F&ST	Thermal Design of Fire and Smoke Tube Boiler	
TD Boiler WT	Thermal Design of Water Tube Boiler	
<u>Calculation</u>		
cal. Boiler Performance ASME PTC 4-2008	calculates Boiler Performance based on ASME PTC 4-2008	
cal. Boiler Performance B&W	calculates Boiler Performance based on B&W Calculation Sheet.	
cal. FD Fan boiler	calculates Boiler FD Fan Capacity	
cal. Line Sizing	sizes Boiler Pipe Line based on Fluid Velocity	
cal. Stack Dispersion	calculates Stack Dispersion	
cal. Venturi	sizes Venturi Meter for Combustion Air Flowrate	
cal. Volume & Retention Time	calculates Volume & Retention Time for Steam Drum	
<u>Start-up & Shut-down</u>		
PCD boiler start-up & shut-down	produces Procedure of Boiler Start-up & Shut-down	
SEQ boiler start-up & shut-down	produces Sequence of Boiler Start-up & Shut-down	
<u>Data Sheet</u>		
data sheet De-SH boiler	calculates Process for De-superheater	
data sheet Design Report boiler	produces Design Report of Boiler	
data sheet ECO boiler	produces Economizer Data Sheet	
data sheet F&BV boiler	sizes Flash and Blowdown Vessels	
data sheet Otk boiler	sizes Fuel Oil Tank	
data sheet PDS boiler	produces Performance Data Sheet	
data sheet PGDS boiler	produces Performance Guarantee Data Sheet	
data sheet PSV boiler	produces PSV Data Sheet	
data sheet SGA boiler	produces Outline of Boiler	

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