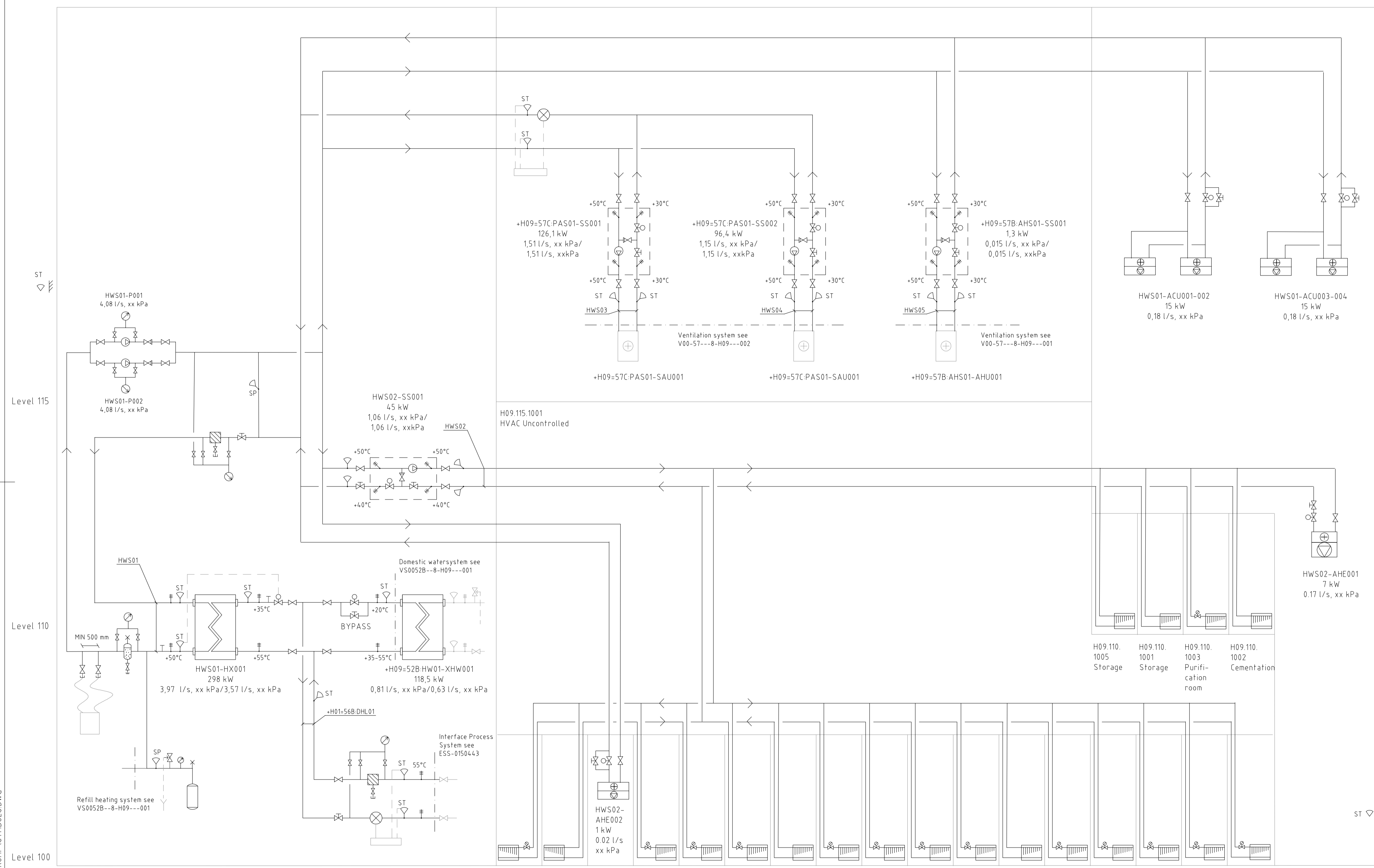

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	Name	Role/Title
Owner	Magnus Lindström	HVAC Designer
Reviewer	Patrik Persson	HVAC System Owner
	Tobias Hörnfeltd	Requirement engineer
	Martin Hansson	Process System Owner
	Per Persson	ES&H representative
Approver	Boris Kildetoft	Building Owner

- LEGEND**
- SYSTEMS**
 SYSTEMS PRECIED BY +H09=56B:
 UNLESS OTHERWISE STATED
- DHL** HEATING WATER SYSTEM PRIMARY
HWS HEATING WATER SYSTEM SECONDARY
- COMPONENTS**
 COMPONENTS PRECIED BY +H09=56B:
 UNLESS OTHERWISE STATED
- HX** HEAT EXCHANGER
P PUMP
SS SHUNT UNIT
ST SENSOR TEMPERATURE
SP SENSOR PRESSURE
- FLOWS AND PRESSURE DROP THROUGH SUBSTATIONS AND HEAT EXCHANGERS ARE DISPLAYED AS:
 FLOW PRIMARY SIDE, PRESSURE DROP PRIMARY SIDE/
 FLOW SECONDARY SIDE, PRESSURE DROP SECONDARY SIDE
- HEAT EXCHANGER
 - RADIATOR
 - HEATING COIL
 - SHUNT UNIT
 - MOBILE DEAERATOR
 - PUMP
 - WATER METER
 - EXPANSION VESSEL
 - DEAERATOR
 - AIR CURTAIN UNIT
 - FAN COIL UNIT
 - TWO WAY CONTROL VALVE
 - THREE WAY CONTROL VALVE
 - SHUT-OFF VALVE
 - BALANCING VALVE
 - NON RETURN VALVE
 - SAFETY VALVE
 - RADIATOR VALVE W. ELECTRIC ACTUATOR
 - THERMOMETER
 - VENT VALVE
 - SENSOR
 - DIRECT READING-MEASURING INSTRUMENT
 - STRAINER



PD DRAFT 2018-01-17

REV	REVISION TYPE	DATE	SIGN
PRELIMINARY DESIGN			
ESS CONVENTIONAL FACILITIES			
WASTE STORAGE BUILDING			

European Spallation Source ESS AB
 ESS, Tunavägen 24
 P.O. Box 176
 SE-221 00 Lund
 SWEDEN
 www.ess.se

SYSTEM OWNER
 PATRIK PERSSON

BUILDING OWNER
 BORIS KILDETOFT

CONSULTANT
 WSP SVERIGE AB

DRAWN BY SPN	MANAGED BY MLM	PROJECT NUMBER 10250034
DATE	APPROVED BY MLM	CHECKED BY MLM

BUILDING H09 HVAC
FLOW CHART
HEATING

SCALE
 -

DRAWING NUMBER
 VS0056B--8-H09---001

REV
 1

REF: \MODELL\VS0056B--C-H09---001.DWG \KOMPAS\SYMBOLS.DWG