

INDEX

STANDARD DRAWINGS INDEX

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DESIGN AND ENGINEERING PRACTICE



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1. INTRODUCTION

1.1 SCOPE

This Index lists all Standard Drawings which are currently active in Shell GSI / SIEP and those which have been cancelled since the previous issue of this Index dated **August 2005**.

The drawings are listed in numerical order within subject groups. The year of issue of the current revision of each drawing is shown. The initial issue of a drawing is identified by the capital letter "O", the first revision is identified by the capital letter "A", and subsequent revisions by the capital letters "B", "C", etc.

A vertical line in the margin (|) identifies all new drawings, revised drawings and those which have been cancelled since the previous issue of this Index.

Drawings shown as cancelled in this Index will not be included in subsequent issues.

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by Shell GSI, the distribution of this DEP is confined to Shell companies and, where necessary, to Contractors and Manufacturers/Suppliers nominated by them.

This DEP is intended for use in oil refineries, chemical plants, gas plants, oil and gas production facilities, and supply/marketing installations.

When DEPs are applied, a Management of Change (MOC) process should be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements may be more stringent than in this DEP the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable as regards safety, environmental, economic and legal aspects. In all cases the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned with the object of obtaining agreement to follow this DEP as closely as possible.

1.3 STANDARD DRAWING NUMBERS

With a few exceptions, Standard Drawings have the prefix "S" (which is not shown in the numerical index). A few drawings with "T" or Tc" prefixes were placed in the Standard Drawing system many years ago, and these drawings will be given a prefix "S" when they are next revised.

1.4 STANDARD DRAWING DISTRIBUTION

The Standard Drawings listed in this DEP are available to companies forming part of the Royal Dutch/Shell Group or managed by a Group company, subject to the appropriate Service Agreement. The drawings may be made available to Contractors and Manufacturers/Suppliers under the same conditions as DEPs.

Hard copies of new and/or revised drawings are not automatically distributed; requests for drawings should be addressed to Shell Global Solutions International B.V., The Hague, OGXA.

Since early 1997, Standard Drawings which have been made electronically have been distributed on the DEP CD-ROM. The Standard Drawings which are available electronically are identified by the letter "Y" in the last column of this index.

1.5 CUSTODIANSHIP

The Custodian of each Standard Drawing is identified in the 5th column of the index.

2. NUMERICAL INDEX BY GROUP

S 01 SCHEMES, DIAGRAMS AND SYSTEMS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
01.001	1997	C	refinery fuel gas system	HEGGE, HERMAN HJ GSNL-GSRU	Y
01.002	1997	D	refinery fuel gas system (incl. off-spec. LPG disposal)	hegge, herman hj gsnl-gsru	Y
01.003	1997	D	refinery fuel oil system	hegge, herman hj gsnl-gsru	Y
01.004	1997	D	refinery asphalt system	hegge, herman hj gsnl-gsru	Y
01.005	2006	E	heat-transfer fluid system	hegge, herman hj gsnl-gsru	Y
01.006	1997	B	refinery LBF/liq butane system	hegge, herman hj gsnl-gsru	Y
01.007	1997	B	system for burning waste gas from high vacuum units and vacuum driers	hegge, herman hj gsnl-gsru	Y
01.008	1997	B	system for burning waste gas from sour water stripper	hegge, herman hj gsnl-gsru	Y
01.009	1997	B	system for burning waste gas from bitumen blowing units	hegge, herman hj gsnl-gsru	Y
01.010	1997	B	system for burning low-pressure gas	hegge, herman hj gsnl-gsru	Y
01.011	1993	C	standard process safeguarding flow diagram of a thermal cracker (excl. fractionation section, distillate cracking section and vacuum flasher)	bowen, christine gsnl-gsrd	Y

S 02 MECHANICAL SYMBOLS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
02.001	1998	O	mechanical symbols for isometric drawings	larsen, greg l gsnl-gsem/1	Y
02.002-001	1998	O	mechanical symbols for use on flow schemes: sheet 1 - pipe symbols and pipe indicator	larsen, greg l gsnl-gsem/1	Y
02.002-002	1998	O	mechanical symbols for use on flow schemes: sheet 2 - general and valves	larsen, greg l gsnl-gsem/1	Y
02.002-003	1998	O	mechanical symbols for use on flow schemes: sheet 3 - vessels and tanks	larsen, greg l gsnl-gsem/1	Y
02.002-004	1998	O	mechanical symbols for use on flow schemes: sheet 4 - columns and internals	larsen, greg l gsnl-gsem/1	Y

02.002-005	1998	O	mechanical symbols for use on flow schemes: sheet 5 - pumps, compressors, blowers and fans	larsen, greg l gsnl- gsem/1	Y
02.002-006	1998	O	mechanical symbols for use on flow schemes: sheet 6 - separators and filters	larsen, greg l gsnl- gsem/1	Y
02.002-007	1998	O	mechanical symbols for use on flow schemes: sheet 7 - mixers	larsen, greg l gsnl- gsem/1	Y
02.002-008	1998	O	mechanical symbols for use on flow schemes: sheet 8 - heat transfer equipment	larsen, greg l gsnl- gsem/1	Y
02.002-009	1998	O	mechanical symbols for use on flow schemes: sheet 9 – drying equipment	larsen, greg l gsnl- gsem/1	Y
02.002-010	1998	O	mechanical symbols for use on flow schemes: sheet 10 - furnaces	larsen, greg l gsnl- gsem/1	Y
02.002-011	1998	O	mechanical symbols for use on flow schemes: sheet 11 - miscellaneous equipment	larsen, greg l gsnl- gsem/1	Y
02.002-012	1998	O	mechanical symbols for use on flow schemes: sheet 12 – data identification	larsen, greg l gsnl- gsem/1	Y

S 10 UNIVERSAL CONSTRUCTIONS FOR COLUMNS, VESSELS, TUBULARS, ETC.

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
10.010	1995	F	vortex breakers	larsen, greg l gsnl- gsem/1	Y
10.016	1995	E	flanges for non-pressure pipe connections inside vessels	larsen, greg l gsnl- gsem/1	Y
10.030	1996	B	lifting lug for top covers (material: carbon steel, low-alloy steel or stainless steel)	larsen, greg l gsnl- gsem/1	Y
10.031	1995	D	hatch way covers	larsen, greg l gsnl- gsem/1	Y
10.035	1995	F	bolting non-standard flanges with unified inch screw threads	larsen, greg l gsnl- gsem/1	Y
10.039	1995	B	pad-type hand holes with cover flange ANS class 150 and 300 for unfired carbon steel, low alloy steel and stainless steel pressure vessels	larsen, greg l gsnl- gsem/1	Y
10.040	1976	A	explosion cover	larsen, greg l gsnl- gsem/1	
10.041	1981	B	typical drawing of bitumen catcher on top of a blowing tower	larsen, greg l gsnl- gsem/1	
10.045	2006	F	anchor bolts with sleeve for concrete foundations and structures	ryan, tim tfjn gsnl- gsec	Y
10.046	1995	B	stilling well for displacement type level instruments	larsen, greg l gsnl- gsem/1	Y
10.050	1996	A	wall-type gauge glass with reflex or transparent glass.	larsen, greg l gsnl- gsem/1	Y
10.053	1995	A	pad-type hand holes, carbon steel	larsen, greg l gsnl- gsem/1	Y
10.054	1995	A	pad-type hand holes, carbon steel with lining	larsen, greg l gsnl- gsem/1	Y
10.056	2004	B	typical details of insulation collar for carbon, low-alloy steel and stainless steel apparatus	ryan, tim tfjn gsnl- gsec	Y
10.057	1996	A	typical details of 1/2 inch spray nozzle for sight and light glasses	larsen, greg l gsnl- gsem/1	Y
10.060	1996	A	pad flange for circular sight or light glass - carbon steel and alloy steel (incl. stainless steel)	larsen, greg l gsnl- gsem/1	Y
10.061	1996	A	pad flange for circular sight or light glass - clad carbon steel	larsen, greg l gsnl- gsem/1	Y
10.062	1996	A	replaceable glass/flange unit for circular sight or light glass (single glass type)	larsen, greg l gsnl- gsem/1	Y
10.063	1996	B	replaceable glass/flange unit for circular sight or light glass (double glass type)	larsen, greg l gsnl- gsem/1	Y

10.070	1995	B	davit for ANS or BS blind flanges nom. size 12-24 inch incl., classes 150-600 incl.	larsen, greg l gsnl- gsem/1	Y
10.101	1998	E	equipment nozzles	larsen, greg l gsnl- gsem/1	Y
10.103	1995	C	typical details of bush-lined, overlay welded and clad steel nozzles	larsen, greg l gsnl- gsem/1	Y
10.107	1995	C	flanged thermowell nozzle DN 40 mm on equipment	larsen, greg l gsnl- gsem/1	Y
10.108	1995	B	strip lining details	larsen, greg l gsnl- gsem/1	Y
10.109	1995	B	cleat and sleeve for surface-mounted thermometer assembly	larsen, greg l gsnl- gsem/1	Y
10.114	1995	B	nameplate with bracket for vessel and heat exchange equipment	larsen, greg l gsnl- gsem/1	Y
10.115	1995	B	typical detail of lifting trunnion for vertical vessels	larsen, greg l gsnl- gsem/1	Y
10.116	1995	A	bolting for non-standard flanges with metric screw threads	larsen, greg l gsnl- gsem/1	Y

S 12 CIVIL ENGINEERING - BUND WALLS, TANK PITS, RETAINING WALLS, DITCHES, ETC.

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
12.001	2005	D	general tank foundation without leak detection	ryan, tim tfjn gsnl- gsec	Y
12.001-002			withdrawn	ryan, tim tfjn gsnl- gsec	Y
12.002	2005	C	bund wall – typical details	ryan, tim tfjn gsnl- gsec	Y
12.003	2005	B	conceptual tank foundation with tank leak detection and management system for new tanks	ryan, tim tfjn gsnl- gsec	Y
12.004	2005	O	conceptual concrete tank foundation	ryan, tim tfjn gsnl- gsec	Y
12.005	2005	O	typical tank foundation with tank leak detection v management system for existing tanks	ryan, tim tfjn gsnl- gsec	Y

S 13 ROADS AND FENCING

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
13.001	1996	A	fence construction type A with reinforced concrete posts	ryan, tim tfjn gsnl- gsec	Y
13.002	1996	A	fence construction type B with Tee posts and horizontal tubing	ryan, tim tfjn gsnl- gsec	Y
13.003	1996	A	fence construction type C with tee posts	ryan, tim tfjn gsnl- gsec	Y
13.004	1996	A	fence construction type D with tubular posts	ryan, tim tfjn gsnl- gsec	Y
13.005	1996	A	typical sections of heavy duty roads (flexible and rigid paving)	ryan, tim tfjn gsnl- gsec	Y
13.006	1996	A	typical sections of plant roads (heavy duty and rigid paving)	ryan, tim tfjn gsnl- gsec	Y
13.007	1996	A	typical sections of light duty roads and patrol roads (flexible and rigid paving)	ryan, tim tfjn gsnl- gsec	Y
13.008	1996	A	traffic barrier for hydrant	ryan, tim tfjn gsnl- gsec	Y

S 14 DRAINAGE AND SEWERAGE FACILITIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
14.021-001	1995	C	typical 2-bay corrugated plate interceptor. Sheet 1 of 2 - design, start-up, operation and maintenance instructions	ryan, tim tfjn gsnl-gsec	Y
14.021-002	1995	C	typical 2-bay corrugated plate interceptor. Sheet 2 of 2 - General arrangement	ryan, tim tfjn gsnl-gsec	Y

S 17 BUILDINGS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
17.001	1995	O	typical analyser house for tropical areas	ryan, tim tfjn gsnl-gsec	Y
17.002	1995	O	typical analyser house for non-tropical areas	ryan, tim tfjn gsnl-gsec	Y

S 19 CONCRETE FOUNDATIONS AND STRUCTURES, PLANT PAVING, TRENCHES,
TRENCH COVERS ETC.

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
19.001	1996	B	electrical and instrument cable trenches in concrete paved areas	ryan, tim tfjn gsnl- gsec	Y
19.002	1996	B	cable routing in unpaved, brick-paved or tiled areas and crossing roads	ryan, tim tfjn gsnl- gsec	Y
19.003	1995	A	typical lay-out plans of paving	ryan, tim tfjn gsnl- gsec	Y
19.004	1996	A	light-duty concrete paving and footpaths - typical details	ryan, tim tfjn gsnl- gsec	Y
19.005	1996	A	heavy-duty concrete paving - typical details	ryan, tim tfjn gsnl- gsec	Y
19.006	1996	A	reinforced concrete foundations on or through paving	ryan, tim tfjn gsnl- gsec	Y
19.011	1996	A	liquid tight floor with sub-base treatment system	ryan, tim tfjn gsnl- gsec	Y
19.050	1996	B	chemical resistant brick linings for concrete structures – flooring	ryan, tim tfjn gsnl- gsec	Y
19.051-001	1996	B	chemical resistant brick linings for concrete structures - expansion joint for (limited) multidirectional movement - details of expansion joint in floors. (sheet 1 of 2)	ryan, tim tfjn gsnl- gsec	Y
19.051-002	1996	B	chemical resistant brick linings for concrete structures - expansion joint for (limited) multidirectional movement - details of expansion joint in floors. (sheet 2 of 2)	ryan, tim tfjn gsnl- gsec	Y
19.052	1996	B	chemical resistant brick linings for concrete structures - expansion joint for (limited) multidirectional movement - detail of expansion joint between floor and wall	ryan, tim tfjn gsnl- gsec	Y
19.055	1991	A	drain constructions in floors	ryan, tim tfjn gsnl- gsec	
19.060	1996	B	chemical resistant brick linings for concrete structures - trench construction	ryan, tim tfjn gsnl- gsec	Y
19.062	1996	B	chemical resistant brick linings for concrete structures - trench construction with gres split tiles and half gres pipe elements (Fodder trough)	ryan, tim tfjn gsnl- gsec	Y
19.065	1996	B	chemical resistant brick linings for concrete structures - details of open trench construction lined with bricks or tiles only	ryan, tim tfjn gsnl- gsec	Y
19.071	1996	B	chemical resistant brick linings for concrete structures - detail of foundation	ryan, tim tfjn gsnl- gsec	Y

S 20 COLUMNS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
20.001	1999	J	skirts, cylindrical and conical	de snaijer, arie a gsnl-gsem/3	Y
20.002	1999	G	fireproof protection of skirts	ryan, tim tfjn gsnl-gsec	Y
20.003	1997	C	support ring for insulation	ryan, tim tfjn gsnl-gsec	Y
20.004	2002	H	anchor bolt ring or lugs and base plate for columns	de snaijer, arie a gsnl-gsem/3	Y
20.015	1996	B	typical details of schoepentoeter (vane feed inlet) (type II)	bowen, christine gsnl-gsrd	Y
20.016	1996	B	typical details of schoepentoeter (vane feed inlet) (type III)	bowen, christine gsnl-gsrd	Y
20.017	1996	B	typical details of schoepentoeter (vane feed inlet) (type IV)	bowen, christine gsnl-gsrd	Y
20.019	1996	D	typical details of schoepentoeter (vane feed inlet) vane ladder-supports and general notes	bowen, christine gsnl-gsrd	Y
20.020	1996	B	typical details of schoepentoeter (vane feed inlet) with single section vane ladder, max. height 800 mm (type 1A)	bowen, christine gsnl-gsrd	Y
20.021	1996	A	typical details of schoepentoeter (vane feed inlet) with catcher cap (type 1B)	bowen, christine gsnl-gsrd	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
20.022	1996	B	typical details of schoepentoeter (vane feed inlet) with multiple section vane ladder (type 1C)	bowen, christine gsnl-gsrd	Y
20.025	1996	A	typical details of schoepentoeter (vane feed inlet) (type Hi Fi)	bowen, christine gsnl-gsrd	Y
20.026	1996	A	typical details of schoepentoeter (vane feed inlet) (type Hi Fi) vane distribution and general notes	bowen, christine gsnl-gsrd	Y
20.028	1996	A	typical details of demisters	bowen, christine gsnl-gsrd	Y
20.029	1996	A	typical details of demister attachments	bowen, christine gsnl-gsrd	Y
20.030	1996	A	typical details of demister supports	bowen, christine gsnl-gsrd	Y
T 192073	1961	J	pressed alloy steel bubble cap 4 inch OD (2.5 inch riser)	bowen, christine gsnl-gsrd	

T 239596	1961	F	pressed alloy steel bubble cap 6 inch OD (3.75 inch riser)	bowen, christine gsnl-gsrd	
T 241362	1955	O	pressed monel bubble cap 3 inch OD (1.75 inch riser)	bowen, christine gsnl-gsrd	
T 292616	1961	D	pressed alloy steel bubble cap 3 inch OD (1 15/16 inch riser)	bowen, christine gsnl-gsrd	
T 296531	1961	D	pressed alloy steel bubble cap 4 inch OD 4 7/16 inch height (2.5 inch riser)	bowen, christine gsnl-gsrd	
T 334827	1961	C	pressed alloy steel bubble cap 3 inch OD 4 3/16 inch height (1 15/16 inch riser)	bowen, christine gsnl-gsrd	
T 334828	1961	B	pressed alloy steel bubble cap special design 6 inch OD 6 1/8 inch height (3 3/4 inch riser)	bowen, christine gsnl-gsrd	
Tc 5.123.947	1974	B	principal sketch for tray supports when quick interchangeability is required from downcomer trays into calming section trays	bowen, christine gsnl-gsrd	

S 21 UNFIRED HEAT TRANSFER EQUIPMENT AND ACCESSORIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
21.017	1998	C	brackets for standard vertical reboilers. Nom. Dia. 350 mm up/incl. 1100 mm	stomierows ki, scott gsnl-gseh/2	Y
21.071	1998	C	warning nameplate, material: cast bronze	stomierows ki, scott gsnl-gseh/2	Y
21.072	1998	E	sacrificial anodes for tubulars	stomierows ki, scott gsnl-gseh/2	Y
21.073	1998	C	steel sacrificial plates for tubulars 350 mm nom. Dia. And larger	stomierows ki, scott gsnl-gseh/2	Y
21.074	1998	A	transport frame for air-cooled heat exchanger (forced draught)	stomierows ki, scott gsnl-gseh/2	Y
21.075	1998	A	transport frame for air-cooled heat exchanger (induced draught)	stomierows ki, scott gsnl-gseh/2	Y
21.081	1998	O	bottom part for 14" – 16" and 18" dia. Reboiler with floating head, with 100 mm diameter joint	stomierows ki, scott gsnl-gseh/2	Y
21.082	1998	O	bottom part for 20" – 24" and 26" dia. Reboiler with floating head, with 100 mm diameter joint	stomierows ki, scott gsnl-gseh/2	Y
21.083	1998	O	bottom part for 24" – 26" – 30" – 32" and 36" dia. Reboiler with floating head, with 200 mm diameter joint	stomierows ki, scott gsnl-gseh/2	Y
21.084	1998	O	bottom part for 30" – 32" – 36" – 40" and 44" dia. Reboiler with floating head, with 300 mm diameter joint	stomierows ki, scott gsnl-gseh/2	Y

S 22 VESSELS, INCLUDING INTERNALS AND ACCESSORIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
22.001	1996	J	saddles for horizontal vessels - shell dia. nom. 150 up to and incl. 1000 mm OD	de snaijer, arie a gsnl-gsem/3	Y
22.002	1996	G	saddles for horizontal vessels - shell dia. 1050 mm OD up to and incl. 3600 mm OD	de snaijer, arie a gsnl-gsem/3	Y
22.003	1996	G	sliding plate for saddles of horizontal vessels	de snaijer, arie a gsnl-gsem/3	Y
22.005	1999	J	supports for vertical vessels shell dia. 350 mm OD up to and incl. 1500 mm OD (half skirts)	de snaijer, arie a gsnl-gsem/3	Y
22.007-001	1999	B	'twin flange' coalescer (TFC): sheet 1 - typical drawing	de snaijer, arie a gsnl-gsem/3	Y
22.007-002	1999	B	'twin flange' coalescer (TFC): sheet 2 - design data for coalescing bed	de snaijer, arie a gsnl-gsem/3	Y
22.008	1979	A	typical construction detail of connection for intermediate head of pressure vessels	de snaijer, arie a gsnl-gsem/3	
22.009-001	1981	O	typical drawing of non-flanged coalescer (NFC) (sheet 1 of 2)	de snaijer, arie a gsnl-gsem/3	
22.009-002	1981	O	typical drawing of non-flanged coalescer (NFC) (sheet 2 of 2)	de snaijer, arie a gsnl-gsem/3	

S 23 MISCELLANEOUS MECHANICAL EQUIPMENT

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
23.101	1996	D	typical drawing of rotating disc contactor	de snaijer, arie a gsnl-gsem/3	Y
23.104	1996	C	typical drawing of shaft sealing and top bearing of rotating disc contactor	de snaijer, arie a gsnl-gsem/3	Y
23.105	1996	C	typical drawing of shaft, intermediate and bottom bearing of rotating disc contactor	de snaijer, arie a gsnl-gsem/3	Y
23.106	1996	C	typical drawing of grids for rotating disc contactor	de snaijer, arie a gsnl-gsem/3	Y
23.201	1996	C	typical drawing of stirring kettle for grease plants	duininck, jaap gsfr-gsrh	Y
23.202	1996	C	typical drawing of autoclave for grease plants, hot oil heated	duininck, jaap gsfr-gsrh	Y
23.203	1996	C	typical drawing of autoclave for grease plants, electric/steam heated	duininck, jaap gsfr-gsrh	Y

S 24 FURNACES AND RELATED FACILITIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
24.001	1978	E	fuel-oil and fuel-gas system for forced draught furnace	gouwerok, leo pj gsnl-gseh/1	
24.002	2001	G	typical arrangement for air flow measurement in suction of F.D. fans	gouwerok, leo pj gsnl-gseh/1	Y
24.005	2001	G	typical arrangement for air flow measurement in discharge of F.D fans	gouwerok, leo pj gsnl-gseh/1	Y
24.006	1978	E	fuel-oil and fuel-gas system for natural draught furnace with steam assisted or steam atomized burners	gouwerok, leo pj gsnl-gseh/1	
24.007	1976	C	typical utility piping arrangement for vertical furnaces	gouwerok, leo pj gsnl-gseh/1	
24.008	1976	C	typical line-up of 'lyunet' burners in a vertical furnace	gouwerok, leo pj gsnl-gseh/1	
24.009	1976	C	typical utility piping arrangement for horizontal furnaces	gouwerok, leo pj gsnl-gseh/1	

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
24.010	1998	E	typical forced circulation waste heat boiler water/steam circulating system	gouwerok, leo pj gsnl-gseh/1	Y
24.011	1978	B	fuel-oil and fuel-gas system for forced draught furnace with provisions for LBF/liq. C4 firing	gouwerok, leo pj gsnl-gseh/1	
24.012	1978	O	fuel-oil and fuel-gas system for forced draught furnace with steam assisted or steam atomized burners	gouwerok, leo pj gsnl-gseh/1	
24.021	1997	B	fuel-oil and fuel-gas system for a manually started forced draught multiburner furnace	gouwerok, leo pj gsnl-gseh/1	Y
24.022	1994	B	fuel-oil and fuel-gas system for an automatically started forced draught furnace with two steam atomized burners	gouwerok, leo pj gsnl-gseh/1	Y
24.023	1994	B	fuel-oil and fuel-gas system for an automatically started forced draught furnace with more than two steam atomized burners	gouwerok, leo pj gsnl-gseh/1	Y
24.024	1997	B	fuel-oil and fuel-gas system for a single burner furnace	gouwerok, leo pj gsnl-gseh/1	Y
24.025	1994	B	control and safeguarding system for a forced draught furnace with more than one gasburner	gouwerok, leo pj gsnl-gseh/1	Y
24.026	1996	C	control and safeguarding system for a furnace with one gasburner	gouwerok, leo pj gsnl-gseh/1	Y
24.027	1994	A	modifications to existing fuel gas systems to enable safeguarded manual start up and operation on gas	gouwerok, leo pj gsnl-gseh/1	Y
24.028	1994	A	fuel-gas system for a manually started FD furnace with more than one burner (max 16 burners)	gouwerok, leo pj gsnl-gseh/1	Y

24.029	1994	A	more than one burner (max 16 burners)	gseh/1	
			fuel-gas system for manually started FD furnace with more than 16 burners	gouwerok, leo pj gsnl- gseh/1	Y
24.030	1997	C	fuel-oil and fuel-gas system for an automatically started, forced draught multiburner furnace/boiler	gouwerok, leo pj gsnl- gseh/1	Y
24.031	1994	O	air/fuel ratio control and safeguarding	gouwerok, leo pj gsnl- gseh/1	Y
24.032	1994	O	system for waste gas firing	gouwerok, leo pj gsnl- gseh/1	Y
24.033	1998	A	control and safeguarding system for a natural draught multiple burner furnace	gouwerok, leo pj gsnl- gseh/1	Y
24.034	1997	O	fuel-gas system for an automatically started, forced draught multiburner furnace/boiler	gouwerok, leo pj gsnl- gseh/1	Y
24.035	1995	O	control and safeguarding system for a fuel gas fired FCC air preheater	gouwerok, leo pj gsnl- gseh/1	Y
24.036	1997	B	combustion control and safeguarding scheme for tangentially gas-fired CO boiler	gouwerok, leo pj gsnl- gseh/1	Y
24.101	1994	D	observation window for observing burner throats, coils and furnace cell	ryan, tim tfjn gsnl- gsec	Y
24.102	1994	D	detail of handles and weather protection for observation windows	ryan, tim tfjn gsnl- gsec	Y
24.104	1994	E	tube guides in walls of convection sections with refractory thickness of 100 mm or 125 mm	ryan, tim tfjn gsnl- gsec	Y
24.106	1994	C	typical sketch of transportation/erection frame-work for tube bundles	gouwerok, leo pj gsnl- gseh/1	Y
24.107	1994	C	spacer strips for convection section piping	gouwerok, leo pj gsnl- gseh/1	Y
24.108	1994	D	4 inch air-cooled peep hole with flapper	ryan, tim tfjn gsnl- gsec	Y
24.109	1994	D	sight class for 4 inch air-cooled peephole with weather protection	ryan, tim tfjn gsnl- gsec	Y
24.110	1994	C	typical drawing suspension of waste heat boiler coils	gouwerok, leo pj gsnl- gseh/1	Y
24.111	1994	C	typical drawing of steam-disengaging drum	gouwerok, leo pj gsnl- gseh/1	Y
24.112	1994	D	typical drawing of shot cleaning equipment	ryan, tim tfjn gsnl- gsec	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
24.201	1996	D	two hole return bend fitting nom. 3 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl-	Y

			ANS class 600)	gseh/1	
24.202	1996	D	two hole return bend fitting nom. 4 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.203	1996	D	two hole return bend fitting nom. 6 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.204	1996	D	two hole return bend fitting nom. 8 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.205	1996	D	two hole return bend fitting nom. 4 inch/nom. 3 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.206	1996	D	two hole return bend fitting nom. 6 inch/nom. 4 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.207	1996	D	two hole return bend fitting nom. 8 inch/nom. 6 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.208	1996	D	two hole return bend fitting nom. 3 1/2 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.209	1996	C	two hole return bend fitting nom. 5 inch (type horse shoe ANS class 600)	gouwerok, leo pj gsnl- gseh/1	Y
24.212	1999	F	typical details of wall and corner joints	ryan, tim tfjn gsnl- gsec	Y
24.215	1994	E	typical details of furnace base	ryan, tim tfjn gsnl- gsec	Y
24.217	1994	F	detail of furnace bottom (without header box)	ryan, tim tfjn gsnl- gsec	Y
24.218	1994	F	detail of double furnace bottom (with header box)	ryan, tim tfjn gsnl- gsec	Y
24.220	1994	E	detail of cover plates for header boxes	ryan, tim tfjn gsnl- gsec	Y
24.221	1994	E	access door for furnace bottom	ryan, tim tfjn gsnl- gsec	Y
24.222	1994	E	frame for vertical observation window	ryan, tim tfjn gsnl- gsec	Y
24.223	1994	E	frame for horizontal observation window	ryan, tim tfjn gsnl- gsec	Y
24.225	1994	E	access panel with one or two frames for vertical observation windows	ryan, tim tfjn gsnl- gsec	Y
24.226	1994	D	connection of lyunet burner in furnace bottom (single)	ryan, tim tfjn gsnl- gsec	Y
24.227	1994	D	connection of lyunet burner in furnace bottom (double)	ryan, tim tfjn gsnl- gsec	Y
24.229	1994	F	single stuffing box on non and lined plates	ryan, tim tfjn gsnl-	Y

24.231	1994	E	double stuffing box on non and lined plates	gsec ryan, tim tfjn gsnl- gsec	Y
24.232	1994	C	design criteria for wall girders	ryan, tim tfjn gsnl- gsec	Y
24.233	1994	D	typical roof for large furnaces (single cell with welded return bends)	ryan, tim tfjn gsnl- gsec	Y
24.234	1994	D	typical roof for large furnaces (double cell with welding return bends)	ryan, tim tfjn gsnl- gsec	Y
24.235	1994	D	typical roof for small furnaces (single cell with welding return bends)	ryan, tim tfjn gsnl- gsec	Y
24.236	1994	D	typical roof for large furnaces (single cell with fittings at the top only)	ryan, tim tfjn gsnl- gsec	Y
24.237	1994	D	typical roof for small furnaces (single cell with fittings at the top only)	ryan, tim tfjn gsnl- gsec	Y
24.238	1994	E	roof detail 1 and 2 (coil suspension/stuffing box)	ryan, tim tfjn gsnl- gsec	Y
24.240	1994	D	roof detail 3 (coil suspension)	ryan, tim tfjn gsnl- gsec	Y
24.241	1994	D	roof detail 4 (coil suspension)	ryan, tim tfjn gsnl- gsec	Y
24.242	1994	D	roof detail 5 (coil suspension)	ryan, tim tfjn gsnl- gsec	Y
24.243	1994	D	roof detail 6 (header box)	ryan, tim tfjn gsnl- gsec	Y
24.244	1994	D	roof detail 7 (beam end)	ryan, tim tfjn gsnl- gsec	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
24.245	1994	E	roof detail 8 (panel connection)	ryan, tim tfjn gsnl- gsec	Y
24.246	1994	E	roof detail 9 (panel connection)	ryan, tim tfjn gsnl- gsec	Y
24.247	1994	D	roof detail 10 (flue duct connection)	ryan, tim tfjn gsnl- gsec	Y
24.301	1994	E	flanged connections	ryan, tim tfjn gsnl- gsec	Y
24.302	1994	E	expansion joint for flue duct	ryan, tim tfjn gsnl- gsec	Y
24.303	1994	E	sliding plate in flue duct	ryan, tim tfjn gsnl-	Y

				gsec	
24.304	1994	D	access door for flue duct	ryan, tim tfjn gsnl- gsec	Y
24.306	1996	D	damper for flue duct, single shaft	ryan, tim tfjn gsnl- gsec	Y
24.307	1996	D	damper for flue duct, double shaft	ryan, tim tfjn gsnl- gsec	Y
24.401	1994	C	details of duct for cold air and hot air	ryan, tim tfjn gsnl- gsec	Y
24.404	1996	D	flexible flanged connection for hot air duct	ryan, tim tfjn gsnl- gsec	Y
24.405	1996	D	damper for air duct	ryan, tim tfjn gsnl- gsec	Y
24.407	2006	D	vertical suction pipe with raincap for forced draught fan	ryan, tim tfjn gsnl- gsec	Y
24.408	1996	C	inspection panel near damper for air duct	ryan, tim tfjn gsnl- gsec	Y
24.409	1996	C	operating mechanism for hand controlled damper	ryan, tim tfjn gsnl- gsec	Y
24.501	1994	E	detail of removable wall panel	ryan, tim tfjn gsnl- gsec	Y
24.502	1996	E	removable panel with inlet or outlet pipe	ryan, tim tfjn gsnl- gsec	Y
24.503	1996	F	connection for tube guides	ryan, tim tfjn gsnl- gsec	Y
24.504	1994	D	detail of coil supporting beam	ryan, tim tfjn gsnl- gsec	Y
24.505	2004	D	detail of supporting cooled support	ryan, tim tfjn gsnl- gsec	Y
24.508	1996	D	details of hopper floor (details 1, 2, 3, 4 and 5)	ryan, tim tfjn gsnl- gsec	Y
24.509	1994	C	details of hopper floor (details 6, 7 and 8)	ryan, tim tfjn gsnl- gsec	Y
24.510	1999	F	details of hopper floor explosion hatch (details 9 and 10)	ryan, tim tfjn gsnl- gsec	Y
24.511	1996	E	details of hopper floor explosion hatch	ryan, tim tfjn gsnl- gsec	Y
24.601	1994	E	connections for thermowell and pressure instrument	ryan, tim tfjn gsnl- gsec	Y
24.602	1994	F	connection for thermowell with shield against direct flame radiation	ryan, tim tfjn gsnl- gsec	Y

24.603	1994	F	sample connection for flue gas analyser	gsec ryan, tim tfjn gsnl- gsec	Y
24.604	1995	E	connection for skin thermocouple	ryan, tim tfjn gsnl- gsec	Y
24.606	1996	E	connection on air duct for purge and cooling purposes	ryan, tim tfjn gsnl- gsec	Y
24.607	1996	C	1 inch and 1-1/2 inch smothering steam connection for air ducts, furnaces and flue ducts	ryan, tim tfjn gsnl- gsec	Y
24.611	1996	E	drain connection for header boxes	ryan, tim tfjn gsnl- gsec	Y
24.615	1996	F	installation of thermocouple on furnace tubes	gouwerok, leo pj gsnl- gseh/1	Y
24.616	1996	A	thermowell assembly for return bend fittings – type horse shoe - class 600	gouwerok, leo pj gsnl- gseh/1	Y
24.617	1996	A	thermowell for large ducting	gouwerok, leo pj gsnl- gseh/1	Y
24.700	2004	B	air box for low nox burner type 340	gouwerok, leo pj gsnl- gseh/1	Y
24.701	2004	C	general arrangement of low emission burner type LN 340 for dual fuel firing	gouwerok, leo pj gsnl- gseh/1	Y
24.702	2003	A	mounting flange and register burner type LN 340	gouwerok, leo pj gsnl- gseh/1	Y
24.703	2003	A	coverplate airbox burner type LN 340	gouwerok, leo pj gsnl- gseh/1	Y
24.704	1994	O	shell burner cup throat type 340	gouwerok, leo pj gsnl- gseh/1	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
24.705	1994	O	gasgun burner type LN 340	gouwerok, leo pj gsnl- gseh/1	Y
24.706	2004	B	triple fuel gun burner type LN 340	gouwerok, leo pj gsnl- gseh/1	Y
24.707	2003	A	oil barrel with tailpiece for burner type LN 340	gouwerok, leo pj gsnl- gseh/1	Y
24.708	2003	A	connection piece and flapper for LN type burners	gouwerok, leo pj gsnl- gseh/1	Y
24.709	2004	C	valves with safety device for LN type burners	gouwerok, leo pj gsnl- gseh/1	Y
24.710	1994	O	atomiser for burner type LN 340	gouwerok, leo pj gsnl-	Y

				gseh/1	
24.711	1994	O	orifice for lyunet dual and triple fuel guns (2 inch)	gouwerok, leo pj gsnl- gseh/1	Y
24.712	1994	O	arrangement low tension ignition burner type 54 pve (13/700/350)v2e flange at l=607	gouwerok, leo pj gsnl- gseh/1	Y
24.713	1994	O	sightglass 2 inch	gouwerok, leo pj gsnl- gseh/1	Y
24.724	2004	B	air box for low nox burner type 340	gouwerok, leo pj gsnl- gseh/1	Y
24.725	2004	B	general arrangement of low emission burner type LN 420 for dual fuel firing	gouwerok, leo pj gsnl- gseh/1	Y
24.726	2003	A	mounting flange and register burner type LN 420	gouwerok, leo pj gsnl- gseh/1	Y
24.727	2003	B	coverplate airbox burner type LN 420	gouwerok, leo pj gsnl- gseh/1	Y
24.728	1994	O	shell burner cup throat type 420	gouwerok, leo pj gsnl- gseh/1	Y
24.729	1994	O	Gasgun burner type LN 420	gouwerok, leo pj gsnl- gseh/1	Y
24.730	2004	B	triple fuel gun burner type LN 420	gouwerok, leo pj gsnl- gseh/1	Y
24.731	2003	A	oil barrel with tailpiece for LN 420 & LN 520 burners	gouwerok, leo pj gsnl- gseh/1	Y
24.732	2004	B	atomiser with 8 exit holes for burner type LN 420 and LN 520	gouwerok, leo pj gsnl- gseh/1	Y
24.734	2003	A	wrench for burner type LN 420 and LN 520	gouwerok, leo pj gsnl- gseh/1	Y
24.735	1994	O	sightglass 3 inch	gouwerok, leo pj gsnl- gseh/1	Y
24.736	2004	B	general arrangement of low emission burner type LN 420 for triple fuel firing	gouwerok, leo pj gsnl- gseh/1	Y
24.737	2003	O	Corrosion resistant oil barrel with tailpiece for LN 420 and LN 520 burners	gouwerok, leo pj gsnl- gseh/1	Y
24.738	2003	O	Corrosion resistant atomiser for LN 420 and LN 520 burners	gouwerok, leo pj gsnl- gseh/1	Y
24.746	2004	B	air box for low nox burner type 520	gouwerok, leo pj gsnl- gseh/1	Y
24.747	2004	B	general arrangement of low emission burner type LN 520 for dual fuel firing	gouwerok, leo pj gsnl- gseh/1	Y
24.748	2004	B	mounting flange and register burner type LN 520	gouwerok, leo pj gsnl-	Y

24.749	2003	A	coverplate airbox burner type LN 520	gseh/1 gouwerok, leo pj gsnl- gseh/1	Y
24.750	1994	A	shell burner cup throat type 520	gouwerok, leo pj gsnl- gseh/1	Y
24.751	1994	O	gasgun burner type LN 520	gouwerok, leo pj gsnl- gseh/1	Y
24.752	2004	B	triple fuel gun burner type LN 520	gouwerok, leo pj gsnl- gseh/1	Y
24.753	1996	O	burner type LN 340 for double bottom furnaces	gouwerok, leo pj gsnl- gseh/1	Y
24.754	1996	O	burner type LN 420 for double bottom furnaces	gouwerok, leo pj gsnl- gseh/1	Y
24.755	2004	B	burner type LN 520 for double bottom furnaces	gouwerok, leo pj gsnl- gseh/1	Y
24.756	1996	O	staging air nozzle type LN 340 for double bottom furnaces	gouwerok, leo pj gsnl- gseh/1	Y
24.757	1996	O	staging air nozzle type LN 420 for double bottom furnaces	gouwerok, leo pj gsnl- gseh/1	Y
24.758	1996	O	staging air nozzle type LN 520 for double bottom furnaces	gouwerok, leo pj gsnl- gseh/1	Y
24.759	1999	O	gas gun type D for burner type LN 420	gouwerok, leo pj gsnl- gseh/1	Y
24.760	1999	O	gas gun type D for burner type LN 520	gouwerok, leo pj gsnl- gseh/1	Y
24.761	1999	O	triple fule gun type D for burner type LN 420	gouwerok, leo pj gsnl- gseh/1	Y
24.762	1999	O	triple fuel gun type D for burner type LN 520	gouwerok, leo pj gsnl- gseh/1	Y

S 28 STEEL STRUCTURES, STEEL STACKS, ACCESSORIES FOR CONCRETE STACKS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
28.001	1995	B	stairways, general arrangement	ryan, tim tfjn gsnl- gsec	Y
28.002	1995	B	stairways, base of stringers	ryan, tim tfjn gsnl- gsec	Y
28.003	1995	B	stairways, hand railing connections	ryan, tim tfjn gsnl- gsec	Y
28.004	1995	B	stairways, intermediate platform	ryan, tim tfjn gsnl- gsec	Y

28.005	1995	B	stairways, top connections of stringers	ryan, tim tfjn gsnl- gsec	Y
28.006	1995	B	handrailing, type A	ryan, tim tfjn gsnl- gsec	Y
28.007	1995	B	handrailing, type B	ryan, tim tfjn gsnl- gsec	Y
28.008	1995	B	handrailing, type C	ryan, tim tfjn gsnl- gsec	Y
28.009	1995	C	handrailing, connection of railing to concrete. type A	ryan, tim tfjn gsnl- gsec	Y
28.010	1995	C	handrailing, connection of railing to concrete. types B and C	ryan, tim tfjn gsnl- gsec	Y
28.011	2001	E	ladder, general arrangement to columns, stacks and structures	ryan, tim tfjn gsnl- gsec	Y
28.012	1995	C	ladder - typical details of sliding/fixed connections	ryan, tim tfjn gsnl- gsec	Y
28.013	1995	C	platforms - cleats and brackets to columns (design load max 300 kg)	ryan, tim tfjn gsnl- gsec	Y
28.014	1995	B	platforms - cleats and brackets to columns (design load over 300 kg)	ryan, tim tfjn gsnl- gsec	Y
28.015	1995	C	davit general arrangement and typical details	ryan, tim tfjn gsnl- gsec	Y
28.016	1995	C	grating typical of steel curb angles and chekered plate	ryan, tim tfjn gsnl- gsec	Y
28.020	1995	E	anchor bolts	ryan, tim tfjn gsnl- gsec	Y
28.022-001	1996	C	grating, type I (sheet 1 of 3)	ryan, tim tfjn gsnl- gsec	Y
28.022-002	1996	A	grating, type II (sheet 2 of 3)	ryan, tim tfjn gsnl- gsec	Y
28.022-003	1996	O	grating, type III (sheet 3 of 3)	ryan, tim tfjn gsnl- gsec	Y
28.023	1995	A	fastening of apparatus to fireproofed beams	ryan, tim tfjn gsnl- gsec	Y
28.028	1995	A	flare structure - erection procedure	ryan, tim tfjn gsnl- gsec	Y
28.107	1995	B	obstruction lights for stacks	ryan, tim tfjn gsnl- gsec	Y

S 31 ANALYSERS AND SUNDRY INSTRUMENTS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
31.008	1971	A	automatic steam injection system of distillate (thermal) cracking furnaces	bowen, hristine gsnl-gsrd	
31.009	1971	A	automatic steam injection system of residue cracking (visbreaker) furnaces	bowen, Christine gsnl-gsrd	
31.031	1975	O	typical schematic diagram of fire siren and fire water pump control system in the central station	van geel, cees ca gsnl-gses	
31.032	1975	O	typical schematic diagram of control system for diesel engine driven fire water pump	van geel, cees ca gsnl-gses	
31.105	1971	A	typical steam jacketed sample take off point for PGC in vapour space above column trays	van geel, cees ca gsnl-gses	

S 32 FLOW INSTRUMENTS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
32.102	1995	H	square edge flow metering orifice plates for ANSI B 16.36 raised face orifice flanges	van geel, cees ca gsnl-gses	Y
32.104	1998	H	quarter circle flow metering orifice plates for ANSI B 16.36 raised face orifice flanges	van geel, cees ca gsnl-gses	Y
32.112	1998	F	conical entrance flow metering orifice plates for ANSI B 16.36 raised face orifice flanges	van geel, cees ca gsnl-gses	Y
32.114	2005	E	restriction orifice plates for ANSI B 16.5 raised face flanges	van geel, cees ca gsnl-gses	Y

S 35 TEMPERATURE INSTRUMENTS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
35.405	1995	B	furnace tube skin thermocouple assembly	van geel, cees ca gsnl-gses	Y
35.406	1995	B	thermocouple assembly for stirring kettle of grease plant	van geel, cees ca gsnl-gses	Y
35.409	1998	C	thermometer assemblies for mounting in thermowells	van geel, cees ca gsnl-gses	Y
35.410	1998	C	bi-metal thermometer assembly	van geel, cees ca gsnl-gses	Y
35.411	1995	A	thermometer assembly for surface mounting	van geel, cees ca gsnl-gses	Y

S 37 INSTRUMENT INSTALLATION

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
37.000-001	2006	B	PEFS legend for instrument symbols and identification	van geel, cees ca gsnl-gses	Y
37.000-002	2001	A	PEFS legend for instrument symbols and identification	van geel, cees ca gsnl-gses	Y
37.000-003	2001	A	PEFS legend for instrument symbols and identification	van geel, cees ca gsnl-gses	Y
37.000-004	2006	B	PEFS legend for instrument symbols and identification	van geel, cees ca gsnl-gses	Y
37.000-005	2001	A	PEFS legend for instrument symbols and identification	van geel, cees ca gsnl-gses	Y
37.001	2001	O	instrument impulse lines - metric version (multiple sheets)	van geel, cees ca	Y

37.002	2001	O	instrument impulse lines - imperial version (multiple sheets)	gsnl-gses van geel, cees ca gsnl-gses	Y
37.003	2001	O	instrument air lines (multiple sheets)	van geel, cees ca gsnl-gses	Y
37.004	2001	O	instrument mounting supports	van geel, cees ca gsnl-gses	Y
37.601	1995	D	instrument name plates	van geel, cees ca gsnl-gses	Y
37.603-001	2004	E	junction box construction Ex'e' and Ex'i' - signal level classes 1/2/3 - 20 single-pair cables and 1 multicore	van geel, cees ca gsnl-gses	Y
37.603-002	2004	E	junction box construction Ex'e' and Ex'i' - signal level classes 1/2/3 - 10 single-pair cables and 1 multicore	van geel, cees ca gsnl-gses	Y
37.603-003	2004	A	junction box construction Ex'e' and Ex'i' - signal level classes 4/5 - 10 single-pair cables and 21-conductor multicore	van geel, cees ca gsnl-gses	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
37.604	1995	B	instrument cable trunking	van geel, cees ca gsnl-gses	Y
37.612	1995	E	test/connection box	van geel, cees ca gsnl-gses	Y
37.805	1995	B	purge orifice nipple	van geel, cees ca gsnl-gses	Y
37.808	1995	A	parallel threaded connections	van geel, cees ca gsnl-gses	Y
37.809	1995	A	parallel threaded connections, pressure transducers	van geel, cees ca gsnl-gses	Y
37.813	1995	C	mounting plate type A1 (for protective shade and junction box)	van geel, cees ca gsnl-gses	Y
37.814	1995	A	mounting plate type B1 (without protective shade and with junction box)	van geel, cees ca gsnl-gses	Y
37.815	1995	O	mounting plate type A2 (for protective shade without junction box)	van geel, cees ca gsnl-gses	Y
37.816	1995	O	mounting plate type B2 (without protective shade without junction box)	van geel, cees ca gsnl-gses	Y

S 38 PIPING AND PIPING COMPONENTS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
38.002	2006	M	Y-type strainers ANSI classes 150 and 300	larsen, greg l gsnl- gsem/1	Y
38.004	1995	E	bucket-type suction strainers, carbon steel, ANSI class 150	larsen, greg l gsnl- gsem/1	Y
38.005	2006	F	sieve for Y-type strainer	larsen, greg l gsnl- gsem/1	Y
38.007	1995	E	steam sample device	larsen, greg l gsnl- gsem/1	Y
38.011	2006	P	spectacle blinds for ASME flanges	larsen, greg l gsnl- gsem/1	Y
38.013	1996	B	product sample cooler (cooling water: fresh or brackish)	larsen, greg l gsnl- gsem/1	Y
38.034	1995	C	lap joint stub-ends (ring-type) for ANSI flange classes 150 and 300 only	larsen, greg l gsnl- gsem/1	Y
38.037	1996	C	sample cabinets with inlet on top – material carbon steel or low-alloy steel	larsen, greg l gsnl- gsem/1	Y

	38.038	1996	C	sample cabinets with inlet on top, material: stainless steel	larsen, greg l gsnl- gsem/1	Y
	38.041	1997	D	temporary strainer for compressors	larsen, greg l gsnl- gsem/1	Y
	38.042	2006	K	spade blinds for ASME flanges	larsen, greg l gsnl- gsem/1	Y
	38.043	2006	J	spacer for ASME flanges for replacement of spades	larsen, greg l gsnl- gsem/1	Y
	38.046	1995	E	cover flanges for flanged thermowell nozzle	larsen, greg l gsnl- gsem/1	Y
	38.047	1995	A	purge pipe for carbon steel and low-alloy steel equipment	larsen, greg l gsnl- gsem/1	Y
	38.048	1995	A	purge pipe for stainless steel and non ferrous equipment	larsen, greg l gsnl- gsem/1	Y
	38.049	1995	D	level gauges, collar type ANSI class 150 (PN 10)	larsen, greg l gsnl- gsem/1	Y
	38.056	1995	D	displacer chambers	larsen, greg l gsnl- gsem/1	Y
	38.059	1995	A	overall dimensions of plate-type level gauges (through- vision and reflex types)	larsen, greg l gsnl- gsem/1	Y
	38.060	1995	A	cover flanges for flanged thermowell ring-joint	larsen, greg l gsnl- gsem/1	Y
	38.069	1995	A	level gauges, collar type, DIN 2501 – ND 10	larsen, greg l gsnl- gsem/1	Y
	38.070	1995	A	dimensions of cement-lined fittings (nom. Size DN 100 through DN 600)	larsen, greg l gsnl- gsem/1	Y
	38.071	1995	A	dimensions of cement-lined fittings (nom. Size DN 650 through DN 900)	larsen, greg l gsnl- gsem/1	Y
	38.074	1995	A	sleeves for cement-lined pipe and fittings	larsen, greg l gsnl- gsem/1	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
38.075	1995	A	slip-on flanged ends for cement-lined pipe and fittings	larsen, greg l gsnl-gsem/1	Y
38.076	1995	A	typical detail of set-on branch for cement-lined fittings	larsen, greg l gsnl-gsem/1	Y
38.080	1995	A	branch pieces, wafer type, for rubber-lined piping systems	larsen, greg l gsnl-gsem/1	Y
38.081	1995	A	make-up pieces (spacers) for rubber-lined piping systems	larsen, greg l gsnl-gsem/1	Y
38.082	1995	A	overall dimensions of flanged fittings for rubber lining	larsen, greg l gsnl-gsem/1	Y
38.083	1995	A	overall dimensions of flanged piping for rubber lining	larsen, greg l gsnl-gsem/1	Y
38.085	1995	A	flanges, flat face with recess for rubber-lined piping system	larsen, greg l gsnl-gsem/1	Y
38.090	2006	B	branch fittings	larsen, greg l gsnl-gsem/1	Y
38.100	1998	E	flanged thermowell DN 25 and 50 ASME classes up to 900 incl. (for replacement in existing installations)	larsen, greg l gsnl-gsem/1	Y
38.103	1998	E	flanged thermowell DN 40 ASME classes up to 1500 incl.	larsen, greg l gsnl-gsem/1	Y
38.104	1998	E	flanged thermowell DN 50 ASME classes up to 2500 incl.	larsen, greg l gsnl-gsem/1	Y
38.106	1998	D	flanged thermowell, ring joint, DN 40 and DN 50, ASME classes 900 and 1500 (for replacement in existing installations)	larsen, greg l gsnl-gsem/1	Y
38.107	1998	D	flanged thermowell, ring joint, ASME class 2500 (for replacement in existing installations)	larsen, greg l gsnl-gsem/1	Y
38.110	1998	B	flanged thermowell, DN 40, ASME classes up to 900 incl.	larsen, greg l gsnl-gsem/1	Y
38.112	1998	C	high pressure welding thermowell for piping systems, DN 50	larsen, greg l gsnl-gsem/1	Y
38.113	2001	O	flanged thermowell DN 40, ASME classes up to 1500 incl	larsen, greg l gsnl-gsem/1	Y
38.114	2001	O	flanged thermowell DN 50, ASME classes up to 2500 incl	larsen, greg l gsnl-gsem/1	Y
38.120	1996	A	lap-joint flanges for HDPE, PP and PVC piping systems	larsen, greg l gsnl-gsem/1	Y
38.126	1995	A	groove dimensions for static face sealing (high vacuum service)	larsen, greg l gsnl-gsem/1	Y

	38.130	2006	F	orifice flanges, raised face, with flange tappings, ASME class 300 to 2500 incl., nom size DN 50 to DN 600 incl.	larsen, greg l gsnl- gsem/1	Y
	38.131	2006	E	orifice flanges, raised face, with corner tappings, ANS class 300 to 600 incl. nom size DN 50 to 600 incl.	larsen, greg l gsnl- gsem/1	Y
	38.132			withdrawn		
	38.134	2006	B	orifice meter runs with flanged ends, nom. size DN 15 to DN 40 incl., ANS 150 to class 1500 incl.	larsen, greg l gsnl- gsem/1	Y
	38.141	1995	A	steam ring to horizontal flange DN 150 (6 inch) and above in hydrogen service	larsen, greg l gsnl- gsem/1	Y
	38.142	1995	A	two steam rings to horizontal flange DN 150 (6 inch) and above in hydrogen service (with spectacle blind, spade, spacer or orifice)	larsen, greg l gsnl- gsem/1	Y
	38.143	1995	A	steam ring to vertical flange DN 150 (6 inch) and above in hydrogen service	larsen, greg l gsnl- gsem/1	Y
	38.144	1995	A	two steam rings to vertical flange DN 150 (6 inch) and above in hydrogen service (with spectacle blind, spade or spacer)	larsen, greg l gsnl- gsem/1	Y
	38.150	1996	A	pipe spools and spacers for plastic-lined piping systems class 150	larsen, greg l gsnl- gsem/1	Y
	38.151	1996	A	flanged fittings for plastic-lined piping systems class 150	larsen, greg l gsnl- gsem/1	Y
	38.152	1996	A	flanged fittings for plastic-lined piping systems class 150	larsen, greg l gsnl- gsem/1	Y
	38.153	1996	A	branch piece, wafer type, for plastic-lined piping systems class 150	larsen, greg l gsnl- gsem/1	Y

S 44 SUPPORTING ELEMENTS AND FIXTURES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
44.030	1996	B	typical bracings for small bore branches of piping (e.g. drain/vent point)	larsen, greg l gsnl-gsem/1	Y
44.031	1996	B	typical bracings for small bore branches of piping (e.g. orifice instrument connection)	larsen, greg l gsnl-gsem/1	Y
44.032	1996	C	typical bracings for small bore branches of piping (e.g. pressure instrument connection)	larsen, greg l gsnl-gsem/1	Y
44.033	2004	A	standard pipe shoe type S1 thru S6	larsen, greg l gsnl-gsem/1	Y
44.034	2004	A	standard lined pipe shoe type S7 thru S12	larsen, greg l gsnl-gsem/1	Y
44.035	2004	A	standard welded pipe shoe type S29 thru S34	larsen, greg l gsnl-gsem/1	Y
44.036	1998	O	standard guide type G1 thru G10	larsen, greg l gsnl-gsem/1	Y
44.037	1998	O	standard guide type G11 and G12	larsen, greg l gsnl-gsem/1	Y
44.038	1998	O	standard directional anchor type DA6 thru DA7	larsen, greg l gsnl-gsem/1	Y
44.039	1998	O	standard support type BS1 thru BS8	larsen, greg l gsnl-gsem/1	Y
44.040	1998	O	standard adjustable base support type BS9 thru BS17	larsen, greg l gsnl-gsem/1	Y
44.041	1998	O	clamped base support type CB1 thru CB9	larsen, greg l gsnl-gsem/1	Y
44.042	1998	O	adjustable clamped base support type ACB1 thru ACB9	larsen, greg l gsnl-gsem/1	Y
44.043	1998	O	standard clamp heavy type DN 40 thru DN 600	larsen, greg l gsnl-gsem/1	Y
44.044	1998	O	standard base plate type BP1 thru BP7	larsen, greg l gsnl-gsem/1	Y
44.045	1998	O	standard directional base anchor type BA1 thru BA8	larsen, greg l gsnl-gsem/1	Y
44.046	1998	O	standard base anchor type BS1A thru BS5A	larsen, greg l gsnl-gsem/1	Y
44.047	1998	O	standard dummy let type DL1 thru DL8	larsen, greg l gsnl-gsem/1	Y
44.048	1998	O	standard dummy leg type DL9 thru DL16	larsen, greg l gsnl-	Y

					gsem/1	
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S 51 STORAGE TANKS, SPHERES AND ACCESSORIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
51.021			withdrawn		
51.022			withdrawn		
51.023			withdrawn		
51.024			withdrawn		
51.025			withdrawn		
51.026			withdrawn		
51.027			withdrawn		
51.028			withdrawn		
51.030			withdrawn		
51.031			withdrawn		
51.032			withdrawn		
51.040	2005	C	welding details	ryan, tim tfjn gsnl- gsec	Y
51.041	2005	B	typical welding sequences fro bottom plates	ryan, tim tfjn gsnl- gsec	Y
51.042			withdrawn		
51.043	2005	B	typical welding sequences for shell plates	ryan, tim tfjn gsnl- gsec	Y
51.044	2005	O	typical welding sequences for cone roof plates	ryan, tim tfjn gsnl- gsec	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
51.045	2005	C	concrete foundation ring for tanks	ryan, tim tfjn gsnl- gsec	Y
51.046	2005	C	holding-down bolts for tanks with concrete foundation ring	ryan, tim tfjn gsnl- gsec	Y
51.047	2005	O	typical welding sequences for dome roof plates	ryan, tim tfjn gsnl- gsec	Y
51.048			withdrawn		
51.049			withdrawn		
51.051	2005	B	handrails for cone roof tanks	ryan, tim tfjn gsnl- gsec	Y
51.052	2005	B	handrails for dome roof tanks	ryan, tim tfjn gsnl- gsec	Y
51.053			withdrawn		
51.054			withdrawn		
51.056			withdrawn		

51.059			withdrawn		
51.060			withdrawn		
51.061			withdrawn		
51.065			withdrawn		
51.066			withdrawn		
51.067	2005	C	product drain and water draw-off	ryan, tim tfjn gsnl- gsec	Y
51.068	2005	B	roof nozzles	ryan, tim tfjn gsnl- gsec	Y
51.072	2005	C	earthing and bonding details for fixed roof tanks with floating screen	ryan, tim tfjn gsnl- gsec	Y
51.073	2005	B	dip plate	ryan, tim tfjn gsnl- gsec	Y
51.078			withdrawn		
51.079			withdrawn		
51.080			withdrawn		
51.081			withdrawn		
51.082			withdrawn		
51.083			withdrawn		
51.084			withdrawn		
51.085			withdrawn		
51.086	2005	B	expansion hatch for asphalt tank	ryan, tim tfjn gsnl- gsec	Y
51.087	2005	A	spiral type staircase provided with stair treads of galvanised grating	ryan, tim tfjn gsnl- gsec	Y
51.088	2005	A	typical side drain with sump	ryan, tim tfjn gsnl- gsec	Y
51.100	2005	O	single manhole	ryan, tim tfjn gsnl- gsec	Y
51.101			withdrawn		
51.102			withdrawn		
51.103	2005	D	earthing and bonding details for floating roof tank	ryan, tim tfjn gsnl- gsec	Y
51.105	2005	B	rim vent for SIPM seal construction	ryan, tim tfjn gsnl- gsec	Y
51.106			withdrawn		
51.107			withdrawn		
51.108	2005	D	8 inch slotted guide pole/sampling pole for floating roof tanks	ryan, tim tfjn gsnl- gsec	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
51.109			withdrawn		
51.110			withdrawn		
51.111			withdrawn		
51.112			withdrawn		
51.113			withdrawn		
51.114	2005	E	level gauge pole for fixed roof tanks (execution for custody transfer)	ryan, tim tfjn gsnl- gsec	Y
51.115	2005	D	combined guide pole/level gauge pole for floating roof tanks (for custody transfer)	ryan, tim tfjn gsnl- gsec	Y
51.116	2005	O	typical bracing for rolling ladders on large diameter tanks	ryan, tim tfjn gsnl- gsec	Y
51.126			withdrawn		
51.127	2005	B	roof manhole 20 inch or 24 inch diameter	ryan, tim tfjn gsnl- gsec	Y
51.128			withdrawn		
51.129	2005	B	open vent	ryan, tim tfjn gsnl- gsec	Y
51.130	2005	C	vertical ladder	ryan, tim tfjn gsnl- gsec	Y
51.131	2005	C	walkway between tanks	ryan, tim tfjn gsnl- gsec	Y
51.132			withdrawn		
51.133			withdrawn		
51.135			withdrawn		
51.136			withdrawn		
51.137			withdrawn		
51.151			withdrawn		
51.152	2005	B	typical extension pipe on inlet and outlet nozzles for floating roof tank	ryan, tim tfjn gsnl- gsec	Y
51.154	2005	C	level gauge pole for fixed roof tanks (non custody transfer)	ryan, tim tfjn gsnl- gsec	Y
51.155	2005	A	nameplate with bracket for tanks	ryan, tim tfjn gsnl- gsec	Y
51.156-001	2006	O	Elevated Walkway (galvanized) to center of a fixed roof tank – cone roof	ryan, tim tfjn gsnl- gsec	Y
51.156-002	2006	O	Elevated Walkway (galvanized) to center of a fixed roof tank – dome roof	ryan, tim tfjn gsnl- gsec	Y
51.157-001	2006	O	Typical cone roof with external rafters	ryan, tim tfjn gsnl- gsec	Y

	51.157-002	2006	O	Fixed dome roof with external trusses	ryan, tim tfjn gsnl- gsec	Y
	51.158	2006	O	Pressure vacuum valve for storage of product with high true vapour pressure in a floating roof on a manhole or bleeder vent	ryan, tim tfjn gsnl- gsec	Y
	51.160	2006	O	Walkway and windgirders – slope and welding sequence	ryan, tim tfjn gsnl- gsec	Y
	51.201			withdrawn		
	51.202			withdrawn		
	51.203			withdrawn		
	51.204			withdrawn		
	51.207			withdrawn		
	51.208			withdrawn		
	51.209			withdrawn		
	51.210			withdrawn		
	51.211			withdrawn		
	51.212			withdrawn		
	51.213			withdrawn		
	51.214			withdrawn		
	51.215			withdrawn		
	51.216			withdrawn		
	51.217			withdrawn		

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
51.218			withdrawn		
51.219			withdrawn		
51.220			withdrawn		
51.221			withdrawn		
51.222			withdrawn		
51.223			withdrawn		
51.224			withdrawn		
51.225			withdrawn		
51.226	2005	A	tank shell nozzles - flanged class 150	ryan, tim tfjn gsnl- gsec	Y
51.227	2005	A	shell manhole for tanks up to a height of 25 m	ryan, tim tfjn gsnl- gsec	Y
51.251			withdrawn		
51.252			withdrawn		
51.253			withdrawn		
51.254			withdrawn		
51.257			withdrawn		
51.258			withdrawn		
51.259			withdrawn		
51.260			withdrawn		
51.261			withdrawn		
51.262			withdrawn		
51.263			withdrawn		
51.264			withdrawn		
51.265			withdrawn		
51.266			withdrawn		
51.267			withdrawn		
51.268			withdrawn		
51.269			withdrawn		

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
51.270			withdrawn		
51.271			withdrawn		
51.272			withdrawn		
51.273			withdrawn		
51.280-001	2005	A	reference points for survey of vertical storage tanks (general layout)	ryan, tim tfjn gsnl-gsec	Y
51.280-002	2005	A	reference points for survey of vertical storage tanks (tank roofs)	ryan, tim tfjn gsnl-gsec	Y
51.280-003	2005	A	reference points for survey of vertical storage tanks (tank bottom)	ryan, tim tfjn gsnl-gsec	Y

S 64 ELECTRICAL ENGINEERING GENERAL

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
64.000	1995	O	electrical symbols in addition to IEC 617	de wilt, wim gsnl-gsee	Y

S 67 SWITCHGEAR, ELECTRICAL INSTRUMENTS AND DIAGRAMS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
67.004	1997	K	schematic diagrams of control circuits for LV motors	de wilt, wim gsnl-gsee	Y
67.006	1999	H	typical instrument electricity supply system with static components	de wilt, wim gsnl-gsee	Y
67.019	1995	D	single line diagrams of LV switchboard panels	de wilt, wim gsnl-gsee	Y
67.021	1995	E	LV switchboard panel identification	de wilt, wim gsnl-gsee	Y
67.022	1995	D	single line diagrams and control circuits for lighting distribution switchboards	de wilt, wim gsnl-gsee	Y
67.024	1999	E	schematic diagram and control circuit for AC instrument distribution switchboards	de wilt, wim gsnl-gsee	Y
67.025	1997	D	schematic diagram of DC distribution switchboard for process control and safeguarding systems	de wilt, wim gsnl-gsee	Y
67.026	1997	D	typical arrangement of DC instrument distribution switchboard	de wilt, wim gsnl-gsee	Y
67.027	1995	B	high-voltage switchgear and controlgear assemblies, identification of sections and panels	de wilt, wim gsnl-gsee	Y
67.028	1997	C	schematic diagram of control circuits for HV motors (contactor starters)	de wilt, wim gsnl-gsee	Y
67.029	1995	C	schematic diagram of control circuits for two-speed motors (Dahlander system)	de wilt, wim gsnl-gsee	Y
67.031	1995	A	schematic diagram of control circuits for reversing rotation motors	de wilt, wim gsnl-gsee	Y
67.040	1995	A	typical HV single line diagram, arrangement of control and protection supply (2 section board)	de wilt, wim gsnl-gsee	Y
67.041	1995	A	typical HV single line diagram, arrangement of tripping and closing supply (more than 2 sections board)	de wilt, wim gsnl-gsee	Y

			closing supply (more than 2 sections board)	gsnl-gsee	
Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
67.045	1994	A	typical HV single line diagram, motor controlled by contactor	de wilt, wim gsnl-gsee	Y
67.046	1995	A	typical HV single line diagram, motor controlled by circuit breaker	de wilt, wim gsnl-gsee	Y
67.047	1994	A	typical HV single line diagram, large synchronous motor	de wilt, wim gsnl-gsee	Y
67.048	1995	A	typical HV single line diagram, motor with unit transformer	de wilt, wim gsnl-gsee	Y
67.049	1995	A	typical HV single line diagram HV/LV transformer ≤ 1600 kVA, controlled by contactor	de wilt, wim gsnl-gsee	Y
67.050	1995	A	typical HV single line diagram HV/LV transformer ≤ 1600 kVA, controlled by circuit breaker	de wilt, wim gsnl-gsee	Y
67.051	1995	A	typical HV single line diagram, HV/HV transformer including feeder cable ≤ 250 m,	de wilt, wim gsnl-gsee	Y
67.052	1995	A	typical HV single line diagram, HV/HV transformer including feeder cable > 250 m,	de wilt, wim gsnl-gsee	Y
67.053	1995	A	typical HV single line diagram, parallel plain feeder	de wilt, wim gsnl-gsee	Y
67.054	1995	A	typical HV single line diagram, single plain feeder	de wilt, wim gsnl-gsee	Y
67.055	1995	A	typical HV single line diagram, generator directly connected (voltage ≤ 11 kV)	de wilt, wim gsnl-gsee	Y
67.056	1995	A	typical HV single line diagram, generator with unit transformer (voltage > 11 kV)	de wilt, wim gsnl-gsee	Y
67.057	1997	A	typical HV single line diagram for variable speed drive system (VSDS) with synchronous motor	de wilt, wim gsnl-gsee	Y
67.058	1997	A	typical HV single line diagram for submerged motors (contactor starter)	de wilt, wim gsnl-gsee	Y
67.059	1997	A	typical HV single line diagram, overhead line circuits (33-132 kV)	de wilt, wim gsnl-gsee	Y
67.060	1997	A	typical HV single line diagram for grid supply incomer with on-site generation	de wilt, wim gsnl-gsee	Y
67.070	1997	A	typical single line and schematic diagram of control circuits for LV emergency generator	de wilt, wim gsnl-gsee	Y
67.071	1997	A	schematic diagram of control circuits for HV motors (circuit breaker starters)	de wilt, wim gsnl-gsee	Y
67.080	1997	A	typical instrument electrical supply systems with d.c. ups units	de wilt, wim gsnl-gsee	Y

S 68 EARTHING, CABLES, WIRES AND ACCESSORIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
68.001	2002	D	typical earthing systems for tanks	de wilt, wim gsnl-gsee	Y
68.003	2002	E	typical mounting details for earthing connections	de wilt, wim gsnl-gsee	Y
68.004	2002	H	earthing boss for steel structures, tanks, vessels, etc.	larsen, greg l gsnl-gsem/1	Y
68.009	2002	C	typical arrangements of cable trenches in plant areas	de wilt, wim gsnl-gsee	Y

68.017	2002	B	cross-section selection guide, for protective conductor (PE)	gsnl-gsee de wilt, wim gsnl-gsee	Y
68.021	2002	B	clamps for unarmoured single core cables, EPR-insulated, PVC-sheathed, (3800/6600 volts grade)	de wilt, wim gsnl-gsee	Y
68.022	2002	C	selection table for transformer secondary side connecting cables	de wilt, wim gsnl-gsee	Y
68.030	2002	A	typical earthing arrangements for substations, control buildings and field auxillary rooms and associated typical mounting details	de wilt, wim gsnl-gsee	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
68.031	2002	B	typical plant earthing arrangements for offshore installations	de wilt, wim gsnl-gsee	Y
68.032	2002	B	typical plant connection details	de wilt, wim gsnl-gsee	Y
68.033	2002	O	typical plant earth grid layout	de wilt, wim gsnl-gsee	Y
68.034	2002	O	typical field auxiliary room earthing layout (cross-section)	de wilt, wim gsnl-gsee	Y
68.035	2002	O	typical bonding details for field instrument cabling	de wilt, wim gsnl-gsee	Y
68.036	2002	O	typical multi-point earthing systems for electrical cabling and instrument signal lines	de wilt, wim gsnl-gsee	Y
68.040	2004	C	typical drawing for electrical substation	de wilt, wim gsnl-gsee	Y

S 69 LAMPS, LAMP FITTINGS AND ACCESSORIES

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
69.001	1995	D	typical construction and fastening of lamppost for fluorescent lighting fittings	de wilt, wim gsnl-gsee	Y
69.003	1997	A	typical lighting details	de wilt, wim gsnl-gsee	Y

S 75 FIRED STEAM GENERATORS

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
75.004	1998	D	typical control scheme of water/steam side of natural circulation steam boiler	gouwerok, leo pj gsnl- gseh/1	Y

S 88 FIRE PROTECTION AND SAFETY EQUIPMENT

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
88.005	1997	A	steam lance	holstvoogd, rob rd gsnl- gsg/1	Y
88.009	1997	D	foam pourer nozzles for floating roof tank	holstvoogd, rob rd gsnl- gsg/1	Y
88.010	1997	A	foam pourers for floating roof tanks	holstvoogd, rob rd gsnl-	Y

88.012	2003	D	two-way or four-way hydrant for underground piping in freezing areas	gsgh/1 holstvoogd, rob rd gsnl- gsgh/1	Y
88.013	2003	D	two-way or four-way hydrant for underground piping in non-freezing areas	holstvoogd, rob rd gsnl- gsgh/1	Y
88.016	2003	B	two-way hydrant header	holstvoogd, rob rd gsnl- gsgh/1	Y
88.017	2003	B	four-way hydrant header	holstvoogd, rob rd gsnl- gsgh/1	Y
88.018	2003	B	four-way hydrant header with monitor connection	holstvoogd, rob rd gsnl- gsgh/1	Y
88.020	1997	B	arrangement of polyethylene tubing for fire detection of pumps underneath pipe rack	holstvoogd, rob rd gsnl- gsgh/1	Y

Drawing Number	Issue Year	Rev	Title	Custodian	CAD ?
88.021	1997	B	arrangement of polyethylene tubing for fire detection of pumps outside pipe rack	holstvoogd, rob rd gsnl-gsgh/1	Y
88.022	1997	B	subsurface foam system for flammable- and combustible liquids	holstvoogd, rob rd gsnl-gsgh/1	Y
88.023	1997	A	semi-subsurface foam system for flammable and combustible liquids	holstvoogd, rob rd gsnl-gsgh/1	Y
88.030	1995	O	fire training ground for first aid fire fighting training	holstvoogd, rob rd gsnl-gsgh/1	Y
88.031	1995	O	fire training ground for first aid fire fighting training and hose team training	holstvoogd, rob rd gsnl-gsgh/1	Y
88.100	1983	O	fire-fighting vehicle foam tank, foam/water system and two dry powder vessels	holstvoogd, rob rd gsnl-gsgh/1	
88.101	1983	O	fire-fighting vehicle with foam tank and foam/water system	holstvoogd, rob rd gsnl-gsgh/1	
88.104	1983	O	fire-fighting vehicle, crew compartment, foam tank and foam/water system	holstvoogd, rob rd gsnl-gsgh/1	
88.106	1993	A	fire-fighting vehicle with water and foam tanks, water/foam system and two dry powder vessels	holstvoogd, rob rd gsnl-gsgh/1	
88.109	1983	O	fire-fighting vehicle with boom and water/foam system	holstvoogd, rob rd gsnl-gsgh/1	
88.110	1992	A	fire-fighting vehicle, foam concentrate transport	holstvoogd, rob rd gsnl-gsgh/1	
88.114	1983	O	fire-fighting vehicle - foam/dry powder (for quick access)	holstvoogd, rob rd gsnl-gsgh/1	
88.115	1983	O	foam trailer with water/foam inductors	holstvoogd, rob rd gsnl-gsgh/1	
88.116	1983	O	equipment tender	holstvoogd, rob rd gsnl-gsgh/1	