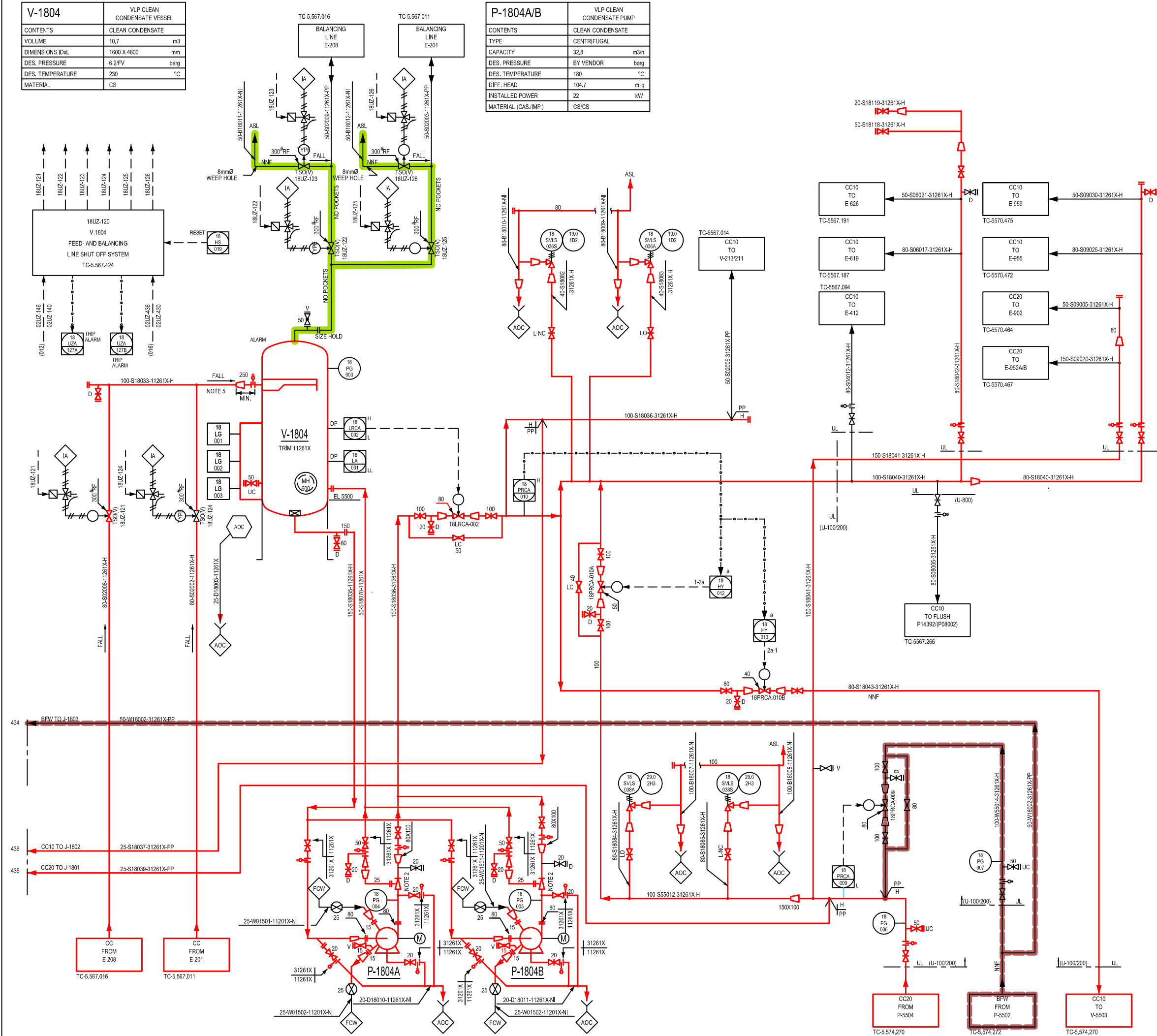


V-1804	VLP CLEAN CONDENSATE VESSEL
CONTENTS	CLEAN CONDENSATE
VOLUME	10.7 m3
DIMENSIONS IDxL	1600 X 4800 mm
DES. PRESSURE	6.2/FV barg
DES. TEMPERATURE	230 °C
MATERIAL	CS

P-1804A/B	VLP CLEAN CONDENSATE PUMP
CONTENTS	CLEAN CONDENSATE
TYPE	CENTRIFUGAL
CAPACITY	32.8 m3/h
DES. PRESSURE	BY VENDOR barg
DES. TEMPERATURE	180 °C
DIFF. HEAD	104.7 mH ₂ O
INSTALLED POWER	22 kW
MATERIAL (CAS,IMP.)	CS/CS



NOTES

1. FOR UNIT NOTES SEE DRAWING TC-5.567.434.

2. MINIMUM FLOW CIRCULATION VALVE.

(ENGINEERING NOTES)

5. NO BENDS ARE ALLOWED OUTSIDE THE VERTICAL PLANE THROUGH NOZZLE AND CENTRE LINE FOR A MINIMUM OF 10 D FROM INLET NOZZLE.

3,4,6,7,8,9. DELETED.

18VLP

18CC

BFW

EQUIPMENT ON THIS DRAWING

P-1804A/B

V-1804

CHIYODA

ENGINEERED BY CHIYODA CORPORATION YOKOHAMA JAPAN

CHIYODA DRG No.
SIP-18-P1-EF-004

9.00	JUNE2004	AHOH	SCES124	SCSP3	AS BUILT
8.01	MAY2004	AHOH	SCES124	SCSP3	COMMENTS INCORPORATED
8.00	NOV 1999	ET			UPDATED AS BUILT
7.00	98.04.27	LCF	SHIFT C	SCSP 3	UPDATED & INCORPORATED COMPANY'S COMMENTS
6.00	97.06.17	LTC	T.S	S.K	AS BUILT
5.00	96.03.31	T.S	H.A	K.Y	UPDATED & INCORPORATED COMPANY'S COMMENTS
0.00	93.05.19	Brl			ORIGINAL ISSUE FOR CLIENTS "COMMENTS"
ISSUE	DATE	BY	CHKD	APVD	DESCRIPTION

WHEN REVISIONS HAVE BEEN MADE TO THIS DRAWING THE LETTER OF ISSUE SHALL BE INDICATED IN A TRIANGLE NEAR THE PART (S) CONCERNED

DRAWN BY	NoR/SzL	DATE	MAY '93	This document is confidential. The copyright therein is vested in the Seraya Chemical Singapore pte. ltd. Signants must obtain the written authority of the sign company before wholly or partly disclosing the contents or disclosing same to others. All rights reserved.
CHECKED BY	WoT	SCALE	NONE	
APPROVED BY	Brl			

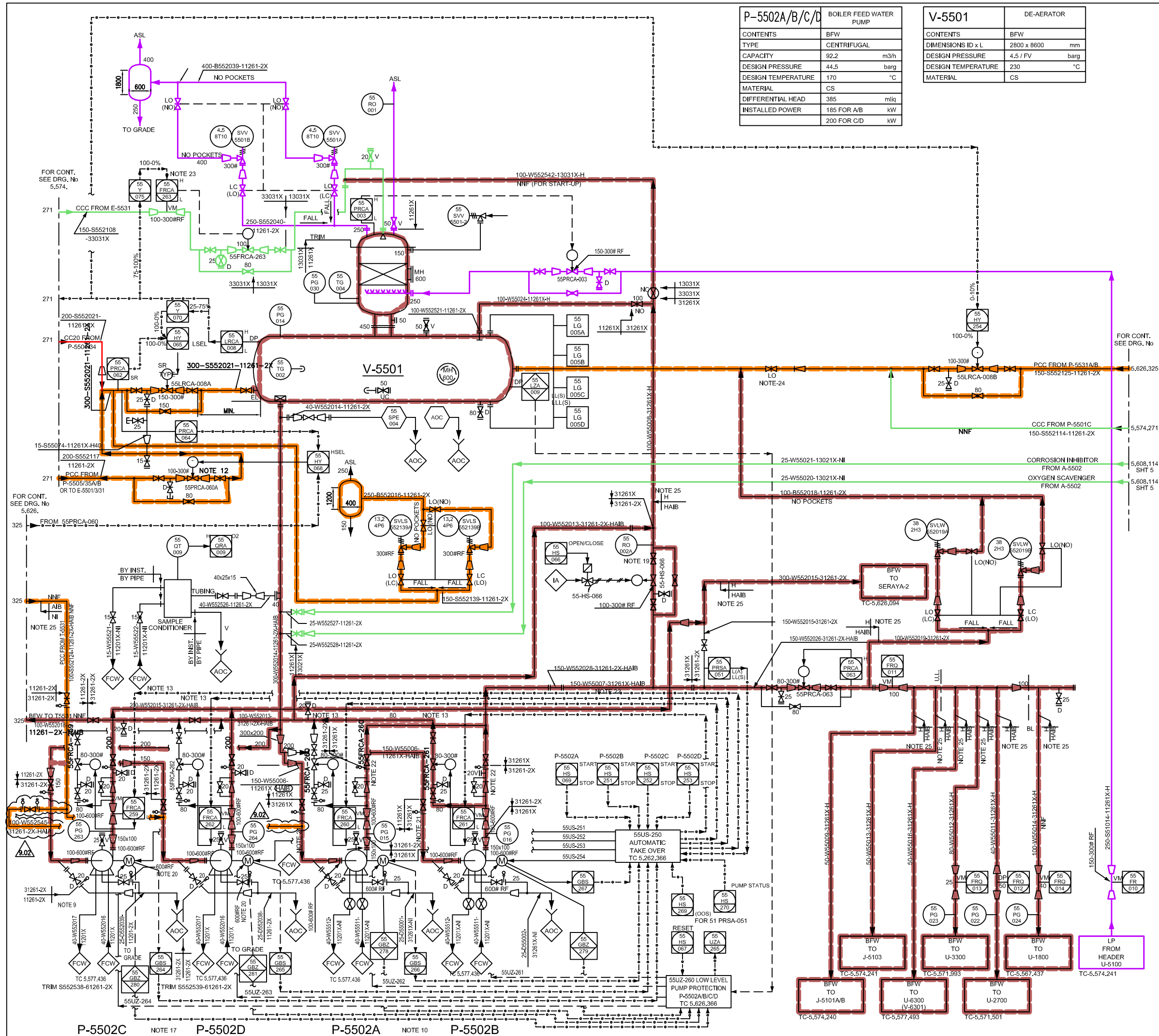
UTILITY ENGINEERING FLOW SCHEME

STEAM & CONDENSATE SYSTEM -CC10(20)

UNIT 1800

SHEET 4 OF 7

LOCATION	SERAYA	PLANT	SMPO	PROJECT No. / REQUISITION	HP 2011/080 SPS
SERAYA CHEMICAL SINGAPORE PTE. LTD			DRG No.	TC-5.567.437	-9.00



P-5502A/B/C/D	
CONTENTS	BFW
TYPE	CENTRIFUGAL
CAPACITY	92.2 m ³ /h
DESIGN PRESSURE	44.5 barg
DESIGN TEMPERATURE	170 °C
MATERIAL	CS
DIFFERENTIAL HEAD	385 mlg
INSTALLED POWER	185 FOR A/B kW 200 FOR C/D kW

V-5501	
CONTENTS	BFW
DIMENSIONS ID x L	2800 x 8600 mm
DESIGN PRESSURE	4.5 / FV barg
DESIGN TEMPERATURE	230 °C
MATERIAL	CS

NOTES

- FOR UNIT NOTES SEE DWG, TC-5,574.270
- DETAILS SHOWN INSIDE THE PACKAGE SHALL BE WORKED OUT WITH VENDOR INFORMATION DURING DETAIL ENGINEERING PHASE.
- 4, 5, 6, 7, 8. DELETED.
- DELETED
- IMPELLER OF P-5502A/B TO BE INCREASED.
- DELETED.
- BI-DIRECTIONAL CONTROL VALVE.
- TRACKING SIGNAL: WHEN PUMP STOPS, SIGNAL TO MIN. FLOW BYPASS VALVE IS SET TO ZERO.
- DELETED.
- DELETED
- DELETED
- NORMAL OPERATION THREE PUMPS RUNNING. PUMP C OR D SPARE.
- DELETED.
- DESIGN PRESSURE 55FRSA-016 HAS INCREASED TO 44.5 BARG AND CONTROL VALVE 55FRSA-016 IS RETAGGED AS 55HS-066.
- DRAIN VALVE FURNISHED BY VENDOR.
- EXISTING INSULATION TO BE MODIFIED TO 100MM HAIB.
- EXISTING INSULATION TO BE MODIFIED TO 100MM HAIB. FOR 55M FROM PUMP. INSULATION CONTRACTOR TO DETERMINE THE EXTENT OF AIB INSULATION POSSIBLE.
- HIGH SETPOINT LIMIT OF 120 T/H.
- LO VALVE FOR PROTECTION AGAINST OVERPRESSURING DUE TO CONNECTED SYSTEMS WITH DIFFERENT DESIGN PRESSURES.
- HAIB INSULATION UPTO 55M FROM P-5502.

LP
CC
CCC

HOLD FOR

BFW
PCC

ANALYSERS ON THIS DRAWING

55QRA-009

EQUIPMENT ON THIS DRAWING

P-5502A/B/C/D	V-5501
6.02	26/03/02 SC3838 SC3838 SC3838 PCR-21166 - IFC
6.01	26/03/02 SC3838 SC3838 SC3838 PCR-21166 - IFA

CONTR. DOC NO: DL-09700-51015M 5.8.2	
REV: SHEET: -	
JGC/ABB Project Partnership	
CHYODA DRG No. SIP-55-P2-EF-003	

DATE	BY	CHKD	APVD	DESCRIPTION
9.02	20/01/05	SC3838	SC3838	PCR-24252 - IFC
9.01	04/01/05	SC3838	SC3838	PCR-24252 - IFA
9.00	MAY2004	AH0H	SC3838	AS BUILT
8.05	JAN 2004	AH0H	SC3838	S2 REVAMP INCORPORATED
8.04	02-07-29	SNK	YC	AS BUILT
8.03	12/04/02	SC3838	SC3838	PCR-21166 - IFC
8.02	26/03/02	SC3838	SC3838	PCR-21166 - IFA
8.01	8/01/02	SC3838	SC3838	INCORPORATED S2-TIE IN PTS.
8.00	NOV 1999	ET	T.S	UPDATED AS BUILT
6.00	97.06.20	LTC	T.S	AS BUILT
0.00	93-05-19	BrL	-	ORIGINAL ISSUE FOR CLIENTS "COMMENTS"

WHEN REVISIONS HAVE BEEN MADE TO THIS DRAWING THE LETTER OF ISSUE SHALL BE INDICATED IN A TRIANGLE NEAR THE PART (S) CONCERNED	
DRAWN BY	NoR/CoP
CHECKED BY	Wot
APPROVED BY	Bri
DATE	MAY '93
SCALE	NONE

UTILITY ENGINEERING FLOW SCHEME		UNIT 5500	
CONDENSATE SYSTEMS-BFW		SHEET 3 OF 13	
LOCATION	SERAYA	PLANT	UTILITIES
PROJECT No. / REQUISITION	HP 2021/08 SPS	DRG No. TC-5.574.272	

FOR CONT.
SEE DRG.NO.
TC 5.626.

J-11803	MP STEAM DESUPER HEATER
CONTENTS	MP STEAM
TYPE	VENTURI
CAPACITY (MIN/MAX)	30/117 t/h
DESIGN PRESSURE	12.7/FV barg
DESIGN TEMPERATURE	340 °C
MATERIAL	CS NOTE 1

A-11801	MPD STEAM SILENCER
CONTENTS	MPD STEAM
CAPACITY (MIN/MAX)	158 t/h
DESIGN PRESSURE	1.5 barg
DESIGN TEMPERATURE	240 °C
MATERIAL	CS

UNIT NOTES

- FOR LEGEND TYPICAL ARRANGEMENT AND GENERAL NOTES,REFERENCE IS MADE TO DRAWINGS TC 5.624,711, TC 5.624,712, TC 5.624,713 AND TC 5.624,714.
- FOR PCFS REFERENCE IS MADE TO DRAWING TC 5.626.142.
- FOR UFS REFERENCE IS MADE TO DRAWINGS TC 5.626.081 THRU TC 5.626.087.
- FOR PIPE SPEC'S REFERENCE IS MADE TO DRAWING TC 5.638,981.
- DISTANCE BETWEEN LAST BRANCH AND END OF MAIN HEADER SHOULD BE KEPT TO A MINIMUM.
- DELETED.

NOTES

- INTERNAL STAINLESS STEEL.
- DELETED.
- MIN. STRAIGHT PIPELENGTH UPSTREAM J-11803: 1.6m
MIN. STRAIGHT PIPELENGTH DOWNSTREAM J-11803: 3m
118TRCA-001 INSTALLED MIN. 6m DOWNSTREAM J-11803.
118PT-001 INSTALLED MIN. 5m DOWNSTREAM J-11803.
- DELETED.
- DELETED.
- DELETED.
- DELETED.
- DELETED.
- INCASE SLOPING CAN NOT BE MET, ADD A 10mm WHEEHPOLE.
- DELETED.
- MAX. CV OF 118PRCA-002 SHALL BE LIMITED TO 950.
- VALVE TO BE LOCKED OPEN TO PROTECT MPD HEADER AGAINST OVERPRESSURE DUE TO HIGH PRESSURE IN EB-UNIT (E-10904).
- SIA REQUIRED FOR FAIL CLOSE ACTION.

MP
MPD
CC
BFW

HOLD FOR

EQUIPMENT ON THIS DRAWING

A-11801 J-11803

9.00	MAY2004	AHOH	SCES124	SCSP3	AS BUILT
5	29JUL02	YL	YCL	SS	AS_BUILT
4	04DEC00	RV	EL	GDS	AFC
2	02SEP98	MDM	PAC	GDS	REVISED_AFD
0	20NOV98	CCB	PAC	GDS	FOR_10%_COST
ISSUE	DATE	DRAWN BY	CHK BY	APPR BY	DESCRIPTION

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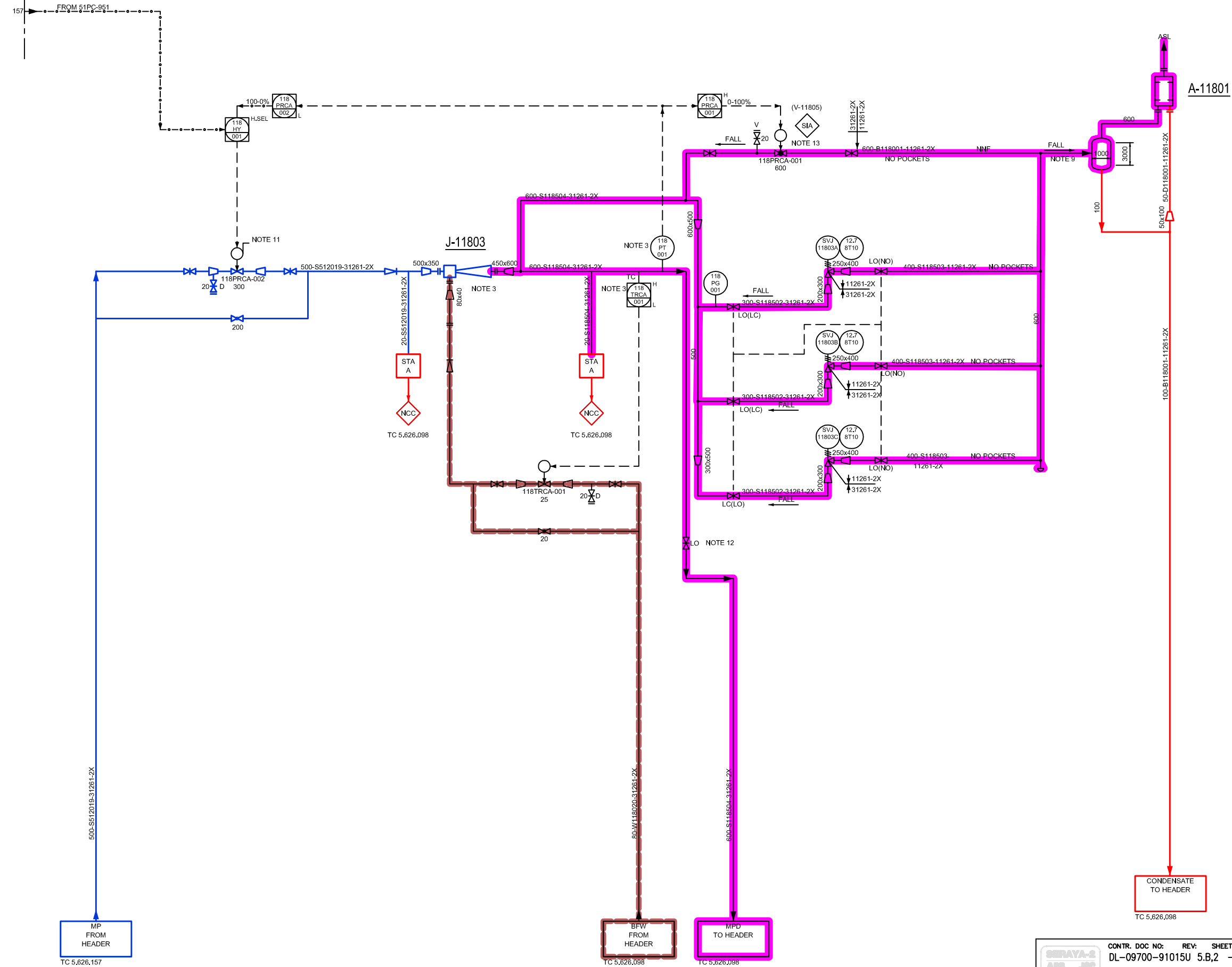
DRAWN BY : CCB	DATE : 20NOV98	This document is confidential. The copyright therein is vested in the SERAYA Chemicals SINGAPORE (PTE) LTD. Reproduction must obtain the written authority of the said company before wholly or partly duplicating the contents or disclosing same to others. All rights reserved.
CHECKED BY : PAC	SCALE NONE	
APPROVED BY GDS		

UTILITY_ENGINEERING_FLOW_SCHEME STEAM_SYSTEM MPD

LOCATION:PULAU_SERAYA SINGAPORE	PLANT: UNITNO:	SERAYA-2 11800	REQUISITION/PROJECT NO: JP_9000_SPS
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SERAYA CHEMICALS SINGAPORE (PTE) LTD	SUB GROUP DRG.No. 08 TC_5.626.091	SHEET REVISION 1/169.00
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CONTR. DOC NO: REV: SHEET:
DL-09700-91015U 5.B,2 -
JGC/ABB Project Partnership



TC 5.626.157

TC 5.626.098

TC 5.626.098

CONDENSATE
TO HEADER

TC 5.626.098

\\gvr\fd\gvr\fd\support\mp\ghar\0010f02.dwg 00-11-09 GHAR

1. FOR UNIT NOTES SEE DRAWING TC 5.626.091
2. DELETED.
3. DELETED.
4. DELETED.
5. UTILITY CONNECTION TO BE USED FOR SAMPLING IN CASE OF CONTAMINATION MEASURED IN PCC MAIN FLOW.
6. FLOW MEASUREMENT SHALL BE BIDIRECTIONAL, AND IS COMPENSATED BY 118PR-017 AND 118TR-008.
7. FLOW MEASUREMENT SHALL BE BIDIRECTIONAL, AND IS COMPENSATED BY 118PR-010 AND 118TR-007.
8. DELETED.
9. DELETED.
10. FLOW MEASUREMENT TO BE COMPENSATED BY 118PR011 AND 118TR-008.
11. FLOW MEASUREMENT TO BE COMPENSATED BY 118PR010 AND 118TR-007.

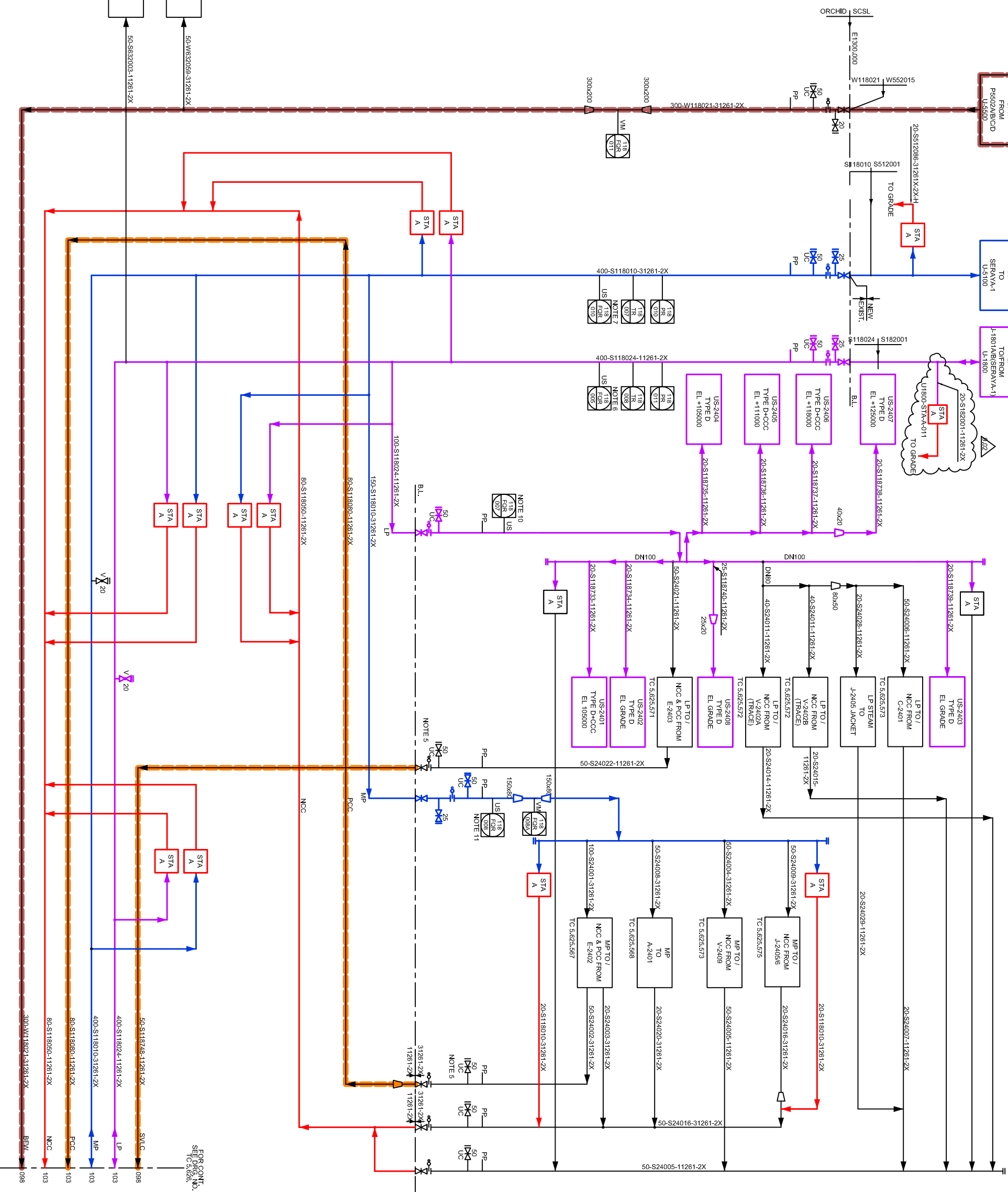


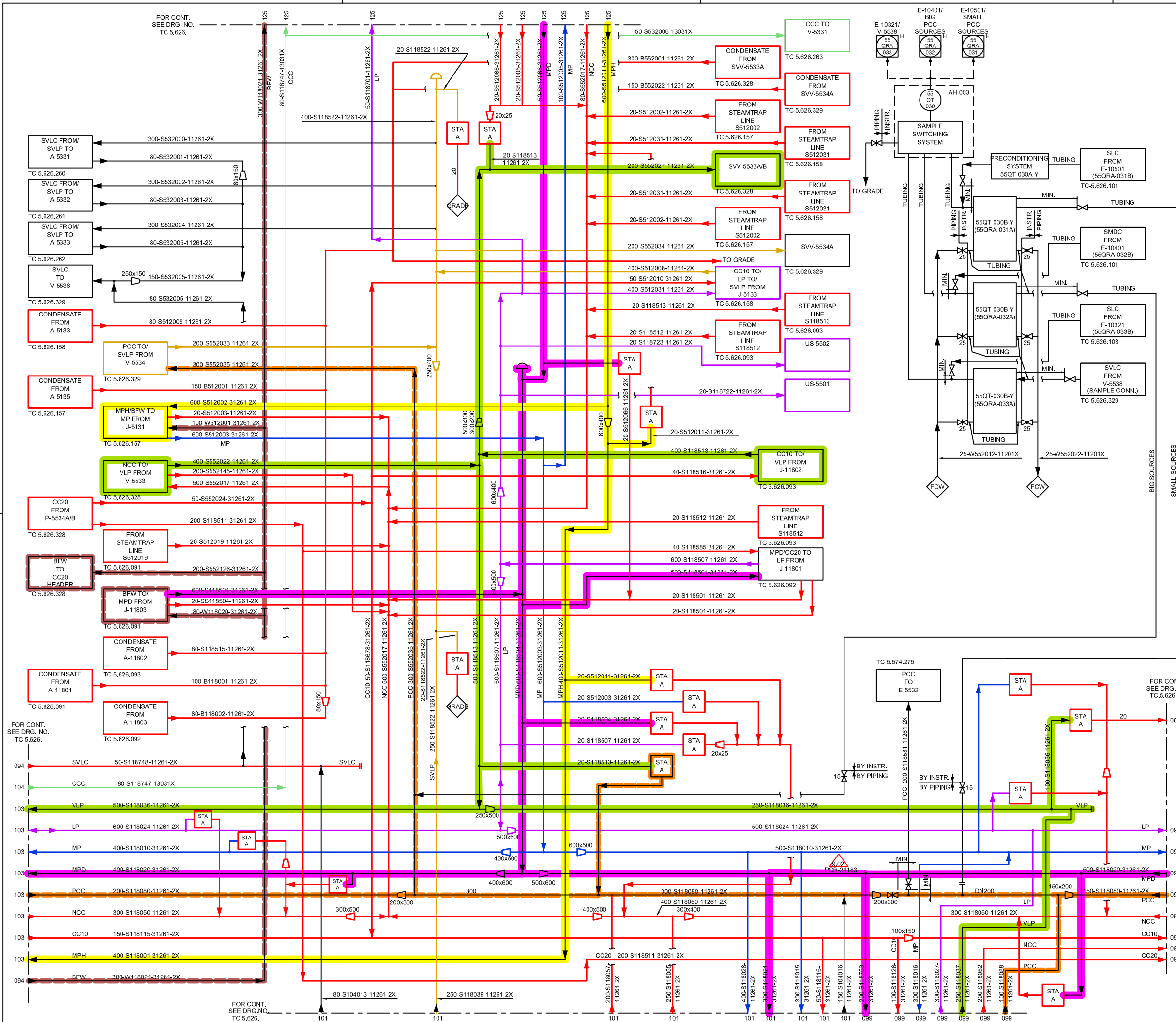
					CNTR. DOC NO. REV. SHEET: DL-097000-91015X 5.A.2 - JAC/ABB Project Partnership
9.02	23/10/06	L4	SCSE12	SCSE17	PGC-24173-1FC
9.01	21/12/05	L4	SCSE12	SCSE17	PGC-24173-1FA
9.10	18/1/2004	ANCH	SCSE124	SCSP3	AS BUILT
7.02	FEB/004	ANCH	SCSE12	SCSE11	FOR-23067 / AS BUILT
7.01	21/02/04	SCSE124	SCSE12	SCSE11	PF-22221-1FC
7.00	9/12/03	SCSE124	SCSE12	SCSE11	PF-22221-1FA
ISSUE REV'D T. B.13		T.CHK13	APR3	T.DES03	
ISSUE REV'D T. B.12		T.CHK12	APR2	T.DES02	
ISSUE REV'D T. B.11		T.CHK11	APR1	T.DES01	
ISSUE REV'D T. B.10		T.CHK10	APR0	T.DES00	
ISSUE	DATE	DRAWN BY	CHK BY	APR BY	DESCRIPTION
WHEN REVISIONS HAVE BEEN MADE TO THIS DRAWING, THE LETTER OF ISSUE SHALL BE INDICATED IN A MARGINE NEAR THE PART(S) CONCERNED					
DRAWN BY : T.BYO		DATE : T.REVATED			
CHECKED BY : T.CHKO		SCALE : T.SC			
APPROVED BY : T.APPO					

UTILITY ENGINEERING FLOW SCHEME STEAM AND CONDENSATE SYSTEM STEAM/CONDENSATE DISTRIBUTION

LOCATION: PULAU SERAYA SINGAPORE	PLANT: Seroyo-2 UNITNO: 11800	REQUISITION/PROJECT NO JP 9000 SPS
-------------------------------------	----------------------------------	---------------------------------------

	SUB GROUP	DRG.No.	SHEET	REVISION
	SERAYA CHEMICALS SINGAPORE (PTE) LTD	TC-5.626.094	4/15	9.02





NOTES

- FOR UNIT NOTES SEE DRAWING TC-5.626.091
- DELETED.
- DELETED.
- BLOCK VALVES TO BE USED FOR SAMPLING IN CASE OF CONTAMINATION MEASURED IN PCC MAIN FLOW.

MP
MPD
LP
VLP
SVLP
MPH
CC
PCC
BFW
CCC

ANALYZERS ON THIS DRAWING

55QT-030,
55QRA-031/032/033.

EQUIPMENT ON THIS DRAWING

ISSUE	DATE	DRAWN BY	CHK BY	APPR BY	DESCRIPTION
9.03	14/06/05	SCES1268	SCES12	SCSP51	SHUT DOWN 2005 - FOR INFORMATION
9.02	02/09/04	SCES121	SCES12	SCES11	PCR-24183 : IFC (TIE-INS ONLY)
9.01	24 Aug 04	SCES121	SCES12	SCES11	PCR-24183 : IFA (TIE-INS ONLY)
6	29JUL02	YL	YCL	SS	AS BUILT
5	04DEC00	RV	EL	GDS	AFC
4	14AUG00	MDM	EL	GDS	REVISED AFC (WITH HOLDS)
0	20NOV98	CCB	PAC	GDS	FOR 10% COST ESTIMATE

WHEN REVISIONS HAVE BEEN MADE TO THIS DRAWING, THE LETTER OF ISSUE SHALL BE INDICATED IN A TRIANGLE NEAR THE PART(S) CONCERNED

DRAWN BY	DATE	SCALE	DESCRIPTION
CCB	20NOV98	NONE	

UTILITY ENGINEERING FLOW SCHEME
STEAM AND CONDENSATE SYSTEM-DISTRIB.

LOCATION:	PLANT:	REQUISITION/PROJECT NO.
PULAU SERAYA SINGAPORE	Seraya-2 UNITNO: 11800	JP 9000 SPS

SERAYA CHEMICALS SINGAPORE (PTE) LTD	SUB GROUP DRG. NO.	SHEET	REVISION
	08 TC 5.626.098	8	16

00-11-30

NOTES.

1 . FOR UNIT NOTES SEE DRAWING TC 5.626.091.

- MP
- MPD
- LP
- MPH
- CC
- CCC
- BFW

EQUIPMENT ON THIS DRAWING

9.01	26 MAY 2004	SCES 128	SCES 12	SCES 11	PCR-23295 (DNF 04-16) : AS BUILT
9.00	MAY 2004	AHOH	SCES124	SCSP3	AS BUILT
3	29JUL02	YL	YCL	SS	AS BUILT
2	04DEC00	RV	EL	GDS	AFC
1	14AUG00	MDM	EL	GDS	REVISED AFC (WITH HOLDS)
0	14APR00	MDM	JJC	GDS	AFC (WITH HOLDS)
ISSUE	DATE	DRAWN BY	CHK BY	APPR BY	DESCRIPTION

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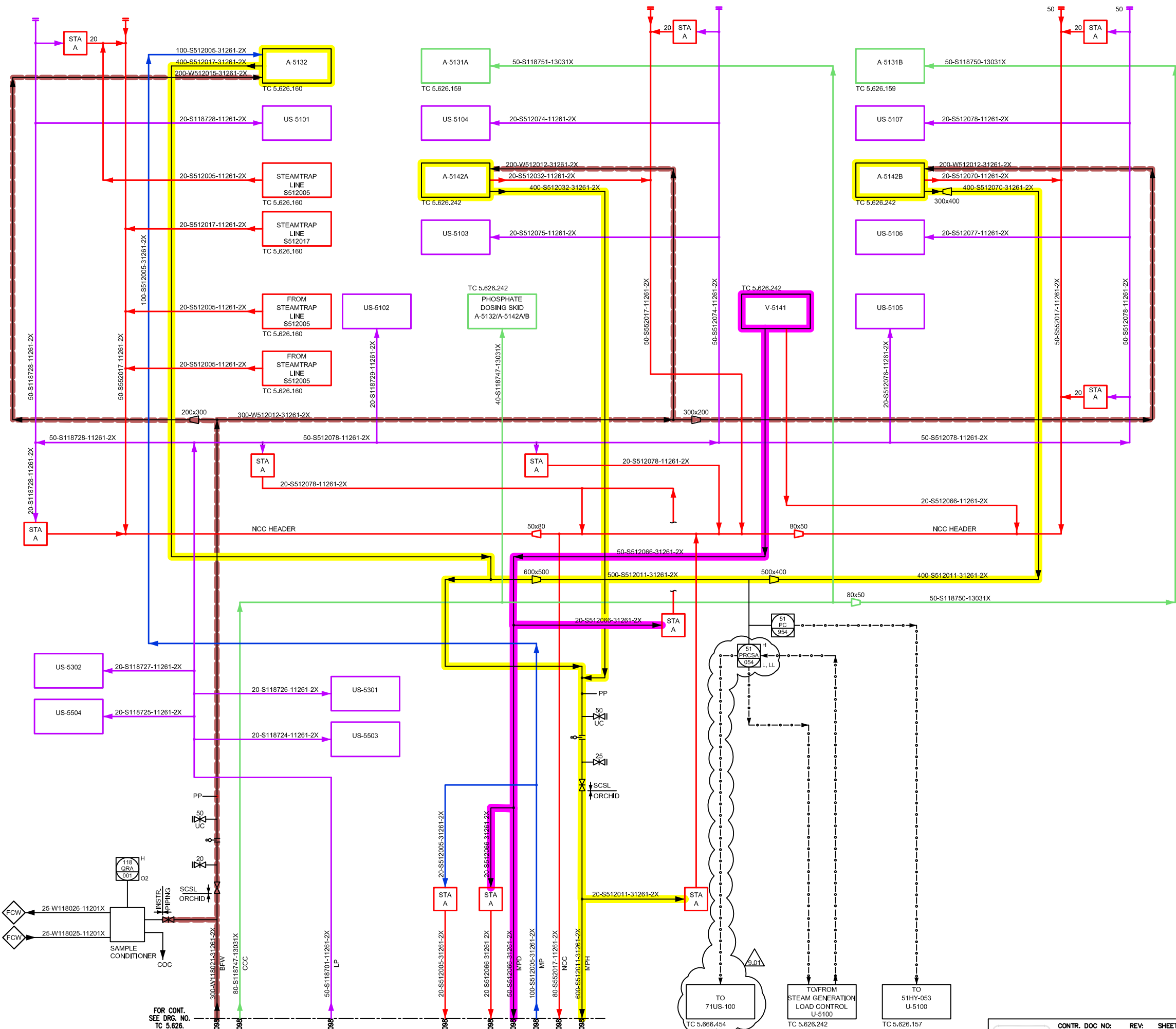
DRAWN BY : MDM	DATE : 14APR00	This document is confidential. The copyright therein is vested in the SERAYA Chemicals SINGAPORE (PTE) LTD. Reproduction or disclosure of the contents or disclosure of the contents to others without the written authority of the said company is strictly prohibited.
CHECKED BY : JJC	SCALE NONE	
APPROVED BY GDS		

STEAM AND CONDENSATE SYSTEM-DISTRIB.
LP STEAM U5100

LOCATION: PULAU SERAYA SINGAPORE	PLANT: Seraya-2 UNITNO: 11800	REQUISITION/PROJECT NO: JP 9000 SPS
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SERAYA CHEMICALS SINGAPORE (PTE) LTD	SUB GROUP DRG.No. 08 TC 5.626.125	SHEET 16/16	REVISION 9.01
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CONTR. DOC NO: DL-09700-91002V 3.A.2 -
REV: SHEET:
JGC/ABB Project Partnership



FOR CONT.
SEE DRG. NO.
TC 5.626.

00-11-59

A-5135	MP STEAM SILENCER
CONTENTS	MP STEAM
CAPACITY	335 t/h
DESIGN PRESSURE	1.5 barg
DESIGN TEMPERATURE	340 °C
MATERIAL	CS

J-5131	MP STEAM DESUPERHEATER
CONTENTS	MP STEAM
TYPE	VENTURI
CAPACITY (MIN/MAX)	80/225 t/h
DESIGN PRESSURE	20.0/FV barg
DESIGN TEMPERATURE	375 °C
MATERIAL	CS NOTE 2

NOTES

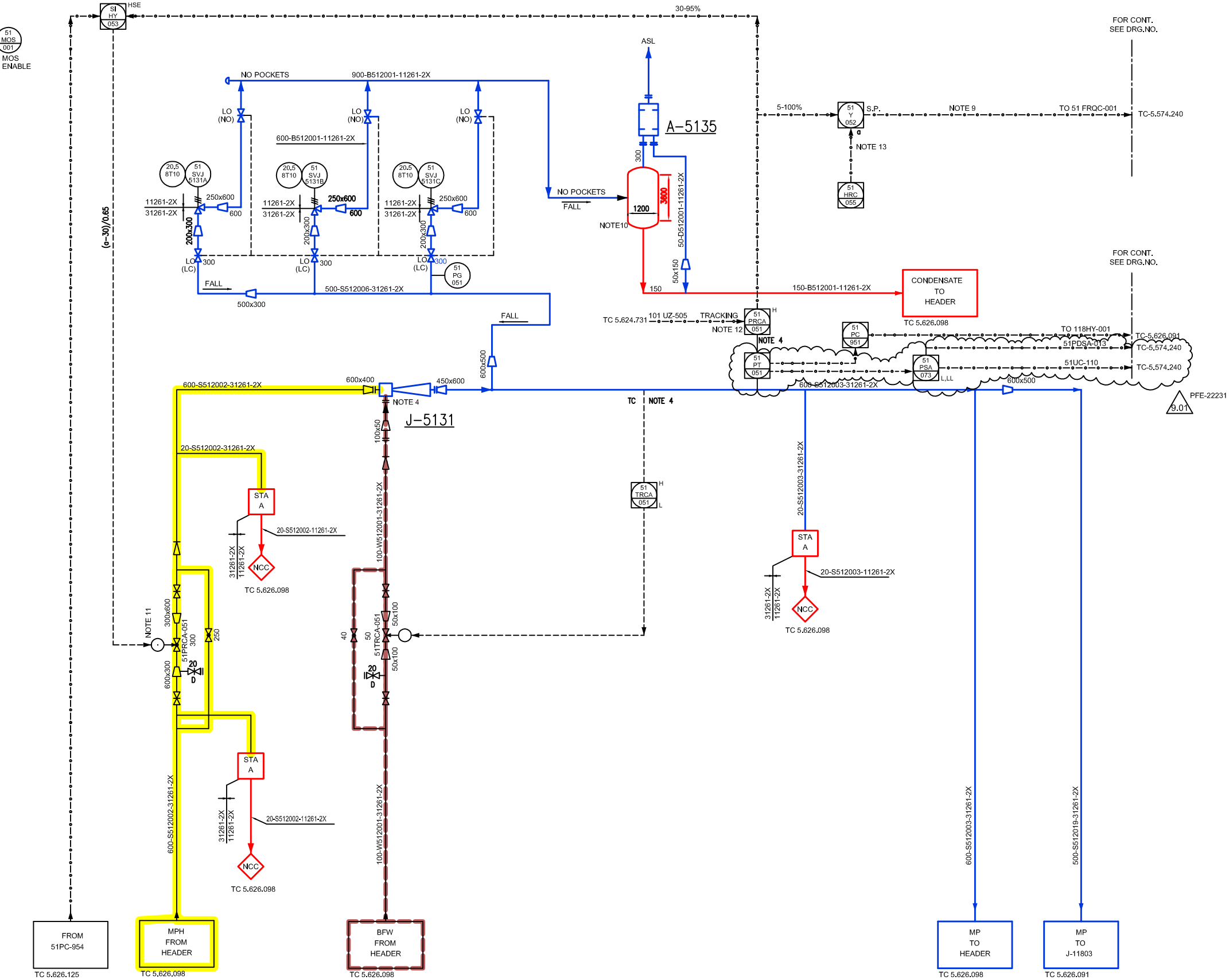
- DELETED
- INTERNALS STAINLESS STEEL.
- DELETED
- MIN. STRAIGHT PIPE LENGTH UPSTREAM J-5131 : 2M.
MIN. STRAIGHT PIPE LENGTH DOWNSTREAM J-5131 : 4M.
51TRCA-051 INSTALLED MIN. 8M. DOWNSTREAM J-5131.
51PRCA-051 INSTALLED MIN. 7M. DOWNSTREAM J-5131.
- DELETED
- DELETED
- DELETED
- DELETED
- 5-30% : 3.2(a-5) (t/h)
30-65% : 80 (t/h)
95-100% : a+4(a-95) (t/h)
- IN CASE SLOPING CANNOT BE MET, ADD A 10mm WEEP HOLE.
- SPECIAL GLOBE VALVE, BODY 200mm, FLANGES 300mm
- TRACKING SIGNAL: ON TRIP KT-10101, CONTROLLER OUTPUT INCREASED WITH 40%
- PCS IMPORT LEVEL (T/HR)

MP
MPH
CC
BFW

HOLD FOR

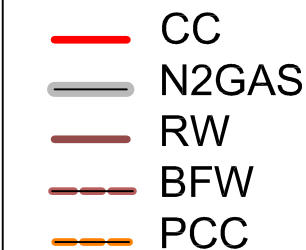
EQUIPMENT ON THIS DRAWING

A-5135					
J-5131					
9.01	17/08/04	SCES124	SCES12	SCES11	PFE-22231 - REVISED INSTR. SCOPE
9.00	MAY2004	AHOH	SCES124	SCPD	AS BUILT
6.01	27.02.03	SCES 124	SCES 12	SCES 11	PFE-22231-FC
6	9.12.03	SCES 124	SCES 12	SCES 11	PFE-22231-FA
5	29JUL02	YL	YCL	SS	AS BUILT
4	04DEC00	RV	EL	GDS	AFC
2	02SEP99	MDM	PAC	GDS	REVISED AFD
0	20NOV98	CCB	PAC	GDS	FOR 10% COST ESTIMATE
ISSUE	DATE	DRAWN BY	CHK BY	APPR BY	DESCRIPTION
WHEN REVISIONS HAVE BEEN MADE TO THIS DRAWING, THE LETTER OF ISSUE SHALL BE INDICATED IN A TRIANGLE NEAR THE PART(S) CONCERNED					
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CHECKED BY : PAC		SCALE : NONE			
APPROVED BY : GDS					
UTILITY ENGINEERING FLOW SCHEME STEAM SYSTEM – MP STEAM					
LOCATION: PULAU SERAYA SINGAPORE		PLANT: Seraya-2 UNITNO: 5100		REQUISITION/PROJECT NO: JP 9000 SPS	
SERAYA CHEMICALS SINGAPORE (PTE) LTD		SUB GROUP 08		DRG.No. TC 5.626.157	SHEET 4/7 REVISION 9.01



P-5540 A/B	RAW WATER BREAK VESSEL PUMP	
CONTENTS	RAW WATER	
TYPE	CENTRIFUGAL	
CAPACITY	121.2	m ³ /h
DESIGN PRESSURE	11.5	bar
DESIGN TEMPERATURE	60	°C
DIFFERENTIAL HEAD	57.1	mliq
MATERIAL(CASING/IMP.)	SS 316 / SS 316	
INSTALLED POWER	30	kW

P-5531A/B	PCC FEED PUMP	
CONTENTS	PCC	
TYPE	CENTRIFUGAL	
CAPACITY	71.3	m3/h
DESIGN PRESSURE	11.5	barg
DESIGN TEMPERATURE	100	°C
DIFFERENTIAL HEAD	91	m1q
MATERIAL(CASING/IMP.)	CS/CI	
INSTALLED POWER	37	kW



- HOLD FOR

V-5540 T-5531 P-5531 A/B
P-5540 A/B

CONTR. DOC NO: REV: SHEET:
DL-09700-51015P 5.A,2

JGC/ABB Project Partnership

9.00	MAY2004	AHOH	SCES124	SCPD	AS BUILT
5	02.07.29	SNK	YC	SS	AS BUILT
4	00.12.15	AEA	SS	JA	APPROVED FOR CONSTRUCTION
2	99.09.02	YHA	JAYA	GDS	REVISED AFD
0	98.11.20	KH-AMEC	JAYA	GDS	FOR 10% COST ESTIMATE
ISSUE	DATE	DRAWN BY	CHK BY	APPR BY	DESCRIPTION

WHEN REVISIONS HAVE BEEN MADE TO THIS DRAWING, THE LETTER OF ISSUE SHALL
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CHECKED BY : JAYA		SCALE : NONE	
APPROVED BY : GDS			

UTILITY ENGINEERING FLOW SCHEME CONDENSATE SYSTEMS

LOCATION: PULAU SERAYA DESCRIPTION	PLANT: Seraya-2 UNITNO: 5500	REQUISITION/PROJECT NO: JP 9000 08 SPS
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	SERAYA CHEMICALS SINGAPORE (PTE) LTD	SUB GROUP	DRG.No. TC-5.626.325	SHEET 10/13	REVISION 9.00

Diagram showing a box labeled "VLP TO HEADER" with two arrows pointing away from it, both labeled $-2X$.

	1.	☐
	2.	☐
	3.	☐
	4.	☐
	5.	☐
	6.	☐
	7.	☐

-  VLP
 CC
 BFW

EQUIPMENT ON THIS DRAWING

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CHECKED BY : PAC	SCALE NONE	
APPROVED BY GDS		

LOCATION: PULAU SERAY SINGAPORE	PLANT: Seraya-2 UNITNO: 5500	REQUISITION/PROJECT NO IP 9000 SPS
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	SERAYA CHEMICALS SINGAPORE (PTE) LTD	SUB GROUP	DRG.No.	SHEET	REVISION
		08	TC 5.626.328	12/13	9 02

