

DETAIL ITEM 7

DETAIL ITEM 6

Client Acceptance:
L Hordijk Waste Specialist (Waste Management)
Design Authority Acceptance:
S Mosinki, General Manager Engineering Services on behalf of DA

23/05/2023 15:15:27(UTC+02:00)
Signed by Leo Hordijk,
leo.hordijk@necsa.co.za

23/05/2023 16:26:51(UTC+02:00)
Signed by Stephen Mosinki,
stephen.mosinki@necsa.co.za

NOTE

- 1) AFTER MANUFACTURE, PLUG TAPPED HOLE AND COILED PIPE AND FILL WITH LEAD THRU Ø60 HOLE.
- 2) REMOVE PLUGS AFTER FILLING AND CHECK THAT TAPPED HOLE AND COILED PIPE ARE CLEAR.

REV	DESCRIPTION	CHANGED BY	NAME	SIGNATURE	DATE
REVIEWED	QC MANAGER				
REVIEWED	WELDING TECHNICIAN				
REVIEWED	CUSTOMER				

ITEM	QTY	DESCRIPTION	DRAWING No / ORDER INFO
7	1	PLATE	PLATE 3 THK ASTM A 240 304L
6	1	COIL	TUBE Ø15,9x1,5 WT ASTM A 276 304L
5	1	LEAD	4% ANTIMONIAL LEAD
4	1	BOTTOM	PLATE 3 THK ASTM A 240 304L
3	1	BODY	PLATE 3 THK ASTM A 240 304L
2	1	INSERT	50mm ROUND BAR ASTM A 479 304L
1	1	TOP	PLATE 6 THK ASTM A 240 304L

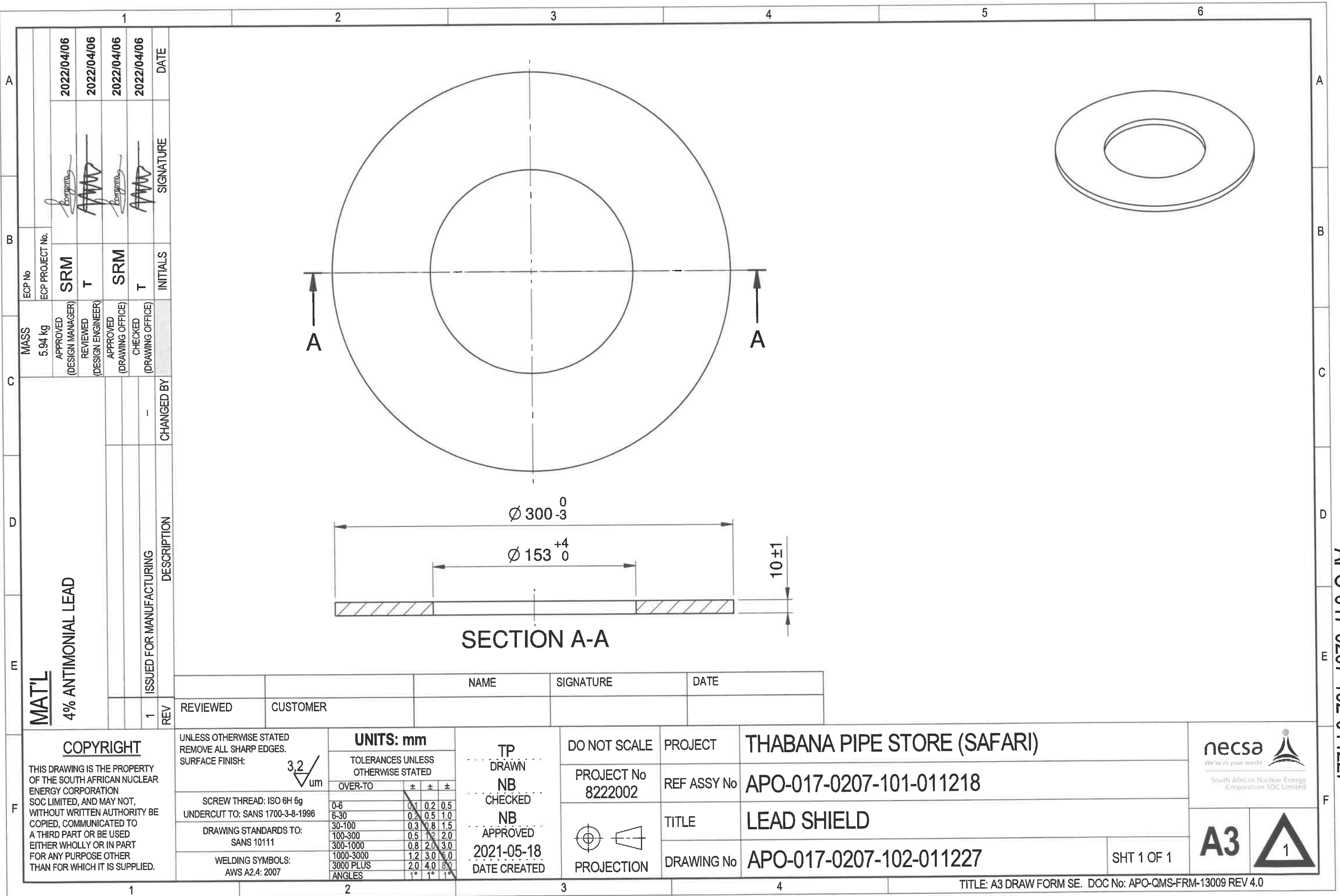
MAT'L SEE PARTS LIST	MASS	243,11 kg	ECP No.	MES-MEC-ECP-0004
	APPROVED (DESIGN MANAGER)	SRM	APPROVED (DESIGN ENGINEER)	T
	APPROVED (DRAWING OFFICE)	SRM	CHECKED (DRAWING OFFICE)	T
	DATE	30-01-2023	DATE	30-01-2023

COPYRIGHT	UNLESS OTHERWISE STATED REMOVE ALL SHARP EDGES. SURFACE FINISH: 3,2 µm	UNITS: mm
THIS DRAWING IS THE PROPERTY OF THE SOUTH AFRICAN NUCLEAR ENERGY CORPORATION SOC LIMITED, AND MAY NOT BE COPIED, COMMUNICATED TO A THIRD PARTY OR BE USED EITHER WHOLLY OR IN PART FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED.	SCREW THREAD: ISO 6H 6g UNDERCUT TO: SANS 1700-3-8-1998	TOLERANCES UNLESS OTHERWISE STATED
	DRAWING STANDARDS TO: SANS 10111	OVER-TO
	WELDING SYMBOLS: AWS A2.4:2007	0-6 1 0.2 0.5
		6-30 0.5 0.5 1.0
		30-100 0.5 0.8 1.5
		100-300 0.5 1.2 2.0
		300-1000 0.8 1.0 3.0
		1000-3000 1.2 3.0 5.0
		3000 PLUS 2.0 4.0 8.0
		ANGLES 1° 1° 1°

TP DRAWN
NB CHECKED
NB APPROVED
2021-05-18
DATE CREATED

DO NOT SCALE	PROJECT	THABANA PIPE STORE (SAFARI)	necsa South African Nuclear Energy Corporation SOC Limited
PROJECT No	REF ASSY No	APO-017-0207-101-011218	
PROJECTION	TITLE	PLUG	A2
DRAWING No	DRAWING No	APO-017-0207-103-011224	
	SHT 1 OF 1		2

APO-017-0207-103-011224



A	B	C	D	E	F	DATE	2022/04/06
						SIGNATURE	
						INITIALS	SRM
						DATE	2022/04/06
ECP PROJECT No.		SRM	2022/04/06				
APPROVED (DESIGN MANAGER)		T	2022/04/06				
REVIEWED (DESIGN ENGINEER)		SRM	2022/04/06				
APPROVED (DRAWING OFFICE)		T	2022/04/06				
CHECKED (DRAWING OFFICE)							
MASS							
5.94 kg							

REV	DESCRIPTION	CHANGED BY
1	ISSUED FOR MANUFACTURING	-

REV	REVIEWED	CUSTOMER	NAME	SIGNATURE	DATE
1					

MAT'L
4% ANTIMONIAL LEAD

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UNLESS OTHERWISE STATED REMOVE ALL SHARP EDGES.
SURFACE FINISH: $3.2 \sqrt{\mu\text{m}}$

SCREW THREAD: ISO 6H 6g
UNDERCUT TO: SANS 1700-3-8-1996

DRAWING STANDARDS TO: SANS 10111

WELDING SYMBOLS: AWS A2.4: 2007

UNITS: mm

TOLERANCES UNLESS OTHERWISE STATED	±	±	±
OVER-TO			
0-6	0.1	0.2	0.5
6-30	0.2	0.5	1.0
30-100	0.3	0.8	1.5
100-300	0.5	1.2	2.0
300-1000	0.8	2.0	3.0
1000-3000	1.2	3.0	4.0
3000 PLUS	2.0	4.0	8.0
ANGLES	1°	1°	1°

TP
DRAWN
NB
CHECKED
NB
APPROVED
2021-05-18
DATE CREATED

DO NOT SCALE

PROJECT No
8222002

PROJECTION

PROJECT
THABANA PIPE STORE (SAFARI)

REF ASSY No
APO-017-0207-101-011218

TITLE
LEAD SHIELD

DRAWING No
APO-017-0207-102-011227

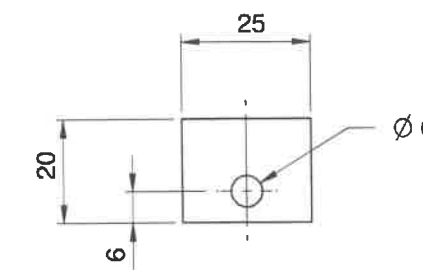
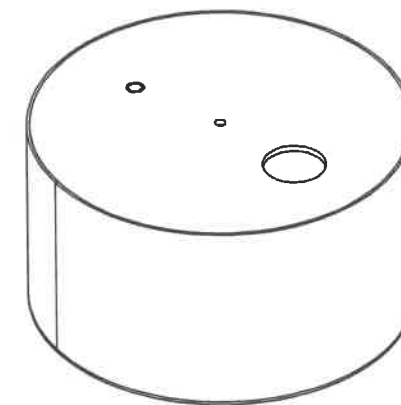
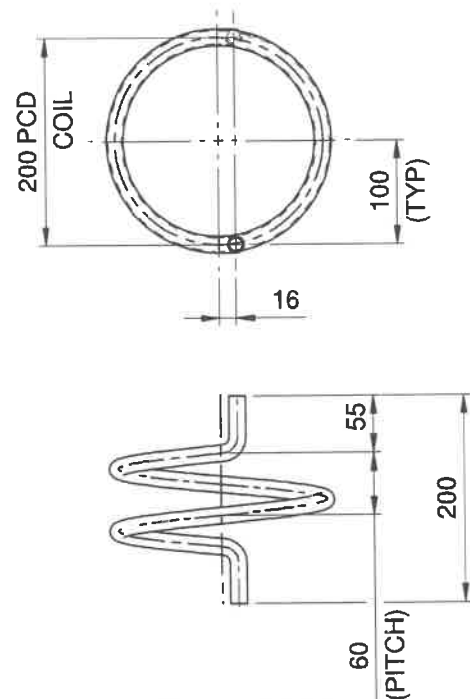
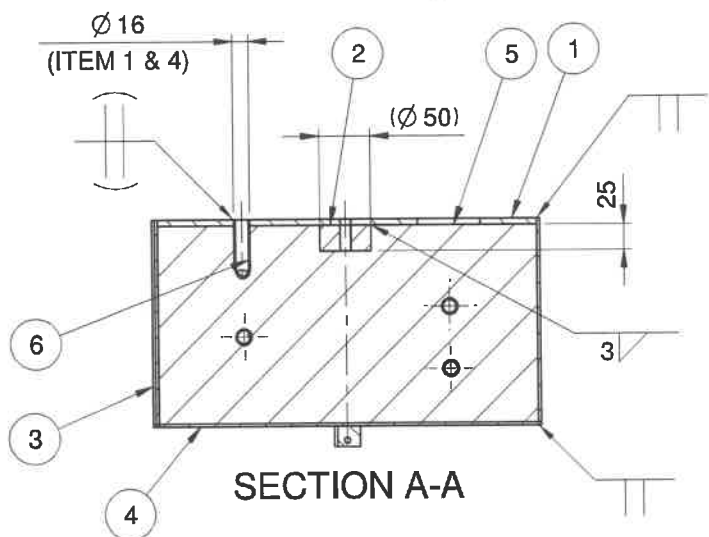
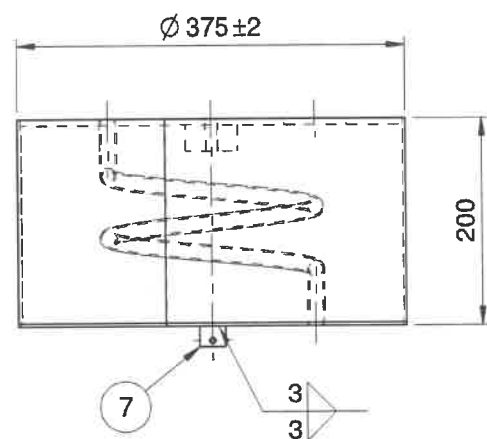
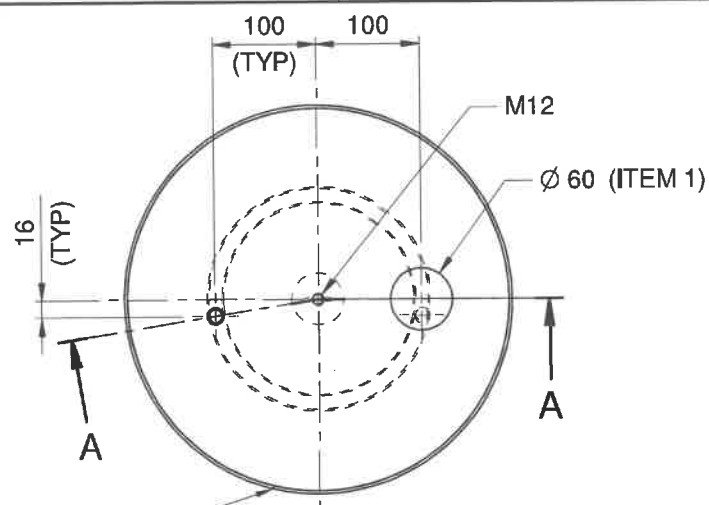
SHT 1 OF 1

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A3

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APO-017-0207-102-011227



DETAIL ITEM 7

DETAIL ITEM 6

Client Acceptance:
L Hordijk Waste Specialist (Waste Management)
Design Authority Acceptance:
S Mosinki, General Manager Engineering Services on behalf of DA

23/05/2023 15:18:22(UTC+02:00)
Signed by Leo Hordijk,
leo.hordijk@necsa.co.za

23/05/2023 17:16:11(UTC+02:00)
Signed by Stephen Mosinki,
stephen.mosinki@necsa.co.za

NOTE

- 1) AFTER MANUFACTURE, PLUG TAPPED HOLE AND COILED PIPE AND FILL WITH LEAD THRU Ø60 HOLE.
- 2) REMOVE PLUGS AFTER FILLING AND CHECK THAT TAPPED HOLE AND COILED PIPE ARE CLEAR.

ITEM	QTY	DESCRIPTION	DRAWING No / ORDER INFO
7	1	PLATE	PLATE 3 THK ASTM A240 304L
6	1	COIL	TUBE Ø15,9x1,5 WT ASTM A276 304L
5	1	LEAD	4% ANTIMONIAL LEAD
4	1	BOTTOM	PLATE 3 THK ASTM A240 304L
3	1	BODY	PLATE 3 THK ASTM A240 304L
2	1	INSERT	50mm ROUND BAR ASTM A479 304L
1	1	TOP	PLATE 6 THK ASTM A240 304L

REV	DESCRIPTION	CHANGED BY	NAME	SIGNATURE	DATE
REVIEWED	QC MANAGER				
REVIEWED	WELDING TECHNICIAN				
REVIEWED	CUSTOMER				

REV	DESCRIPTION	CHANGED BY	INITIALS	SIGNATURE	DATE
2	ISSUED FOR MANUFACTURING				

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UNLESS OTHERWISE STATED REMOVE ALL SHARP EDGES. SURFACE FINISH: 3.2 μ m

UNITS: mm

TOLERANCES UNLESS OTHERWISE STATED	OVER-TO	+	-	+	-
0-5	1	0.2	0.5		
6-30	0.8	0.5	1.0		
30-100	0.8	0.8	1.5		
100-300	0.5	1.2	2.0		
300-1000	0.8	1.0	3.0		
1000-3000	1.2	3.0	5.0		
3000 PLUS	2.0	4.0	8.0		
ANGLES	1°	1°	1°		

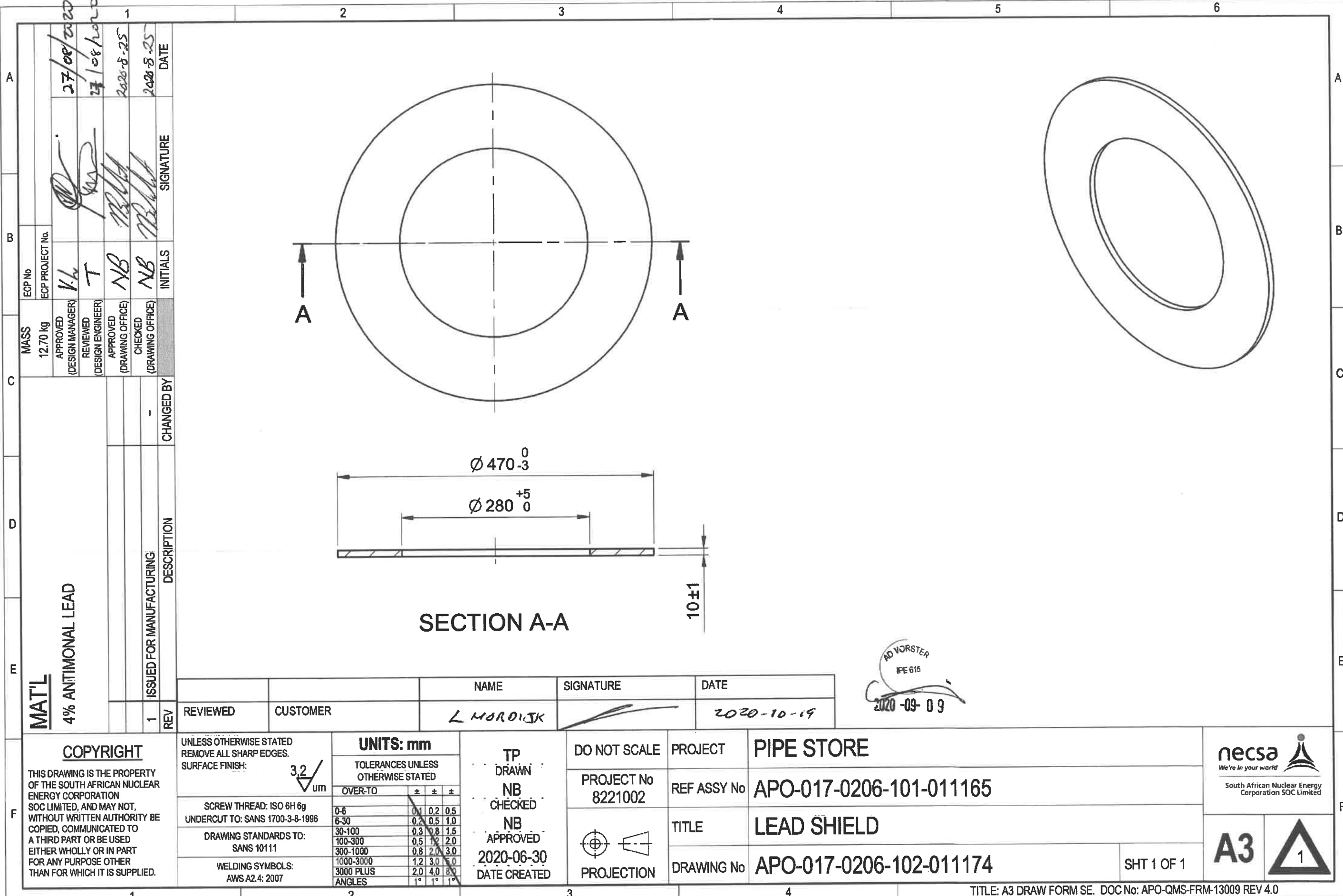
TP DRAWN
NB CHECKED
NB APPROVED
2020-06-29
DATE CREATED

DO NOT SCALE
PROJECT
PROJECT No 82221002
REF ASSY No
TITLE
DRAWING No
PROJECTION

PIPE STORE

PROJECT
REF ASSY No APO-017-0206-101-011165
TITLE
DRAWING No APO-017-0206-103-011171





MASS	12.70 kg
APPROVED (DESIGN MANAGER)	<i>V. L.</i>
REVIEWED (DESIGN ENGINEER)	<i>T.</i>
APPROVED (DRAWING OFFICE)	<i>NB</i>
CHECKED (DRAWING OFFICE)	<i>NB</i>
ECP No	
ECP PROJECT No.	
SIGNATURE	
INITIALS	
DATE	

CHANGED BY	
DESCRIPTION	
ISSUED FOR MANUFACTURING	

MAT'L
4% ANTIMONIAL LEAD

REV	REVIEWED	CUSTOMER	NAME	SIGNATURE	DATE
1			L MOROISK	<i>[Signature]</i>	2020-10-19

AD VORSTER
PE 615
2020-09-09

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UNLESS OTHERWISE STATED REMOVE ALL SHARP EDGES.
SURFACE FINISH: $3.2 \sqrt{\mu m}$
SCREW THREAD: ISO 6H 6g
UNDERCUT TO: SANS 1700-3-8-1996
DRAWING STANDARDS TO: SANS 10111
WELDING SYMBOLS: AWS A2.4: 2007

UNITS: mm

TOLERANCES UNLESS OTHERWISE STATED	OVER-TO	±	±	±
0-6	0.1	0.2	0.5	
6-30	0.2	0.5	1.0	
30-100	0.3	0.8	1.5	
100-300	0.5	1.2	2.0	
300-1000	0.8	2.0	3.0	
1000-3000	1.2	3.0	5.0	
3000 PLUS	2.0	4.0	8.0	
ANGLES	1°	1°	1°	

TP DRAWN
NB CHECKED
NB APPROVED
2020-06-30
DATE CREATED

DO NOT SCALE
PROJECT No 8221002
PROJECTION

PROJECT	PIPE STORE
REF ASSY No	AP0-017-0206-101-011165
TITLE	LEAD SHIELD
DRAWING No	AP0-017-0206-102-011174
SHT 1 OF 1	

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