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27 JUN 2014

From: [Zachary, Aled](#)
To: [Bradford, Julie](#)
Subject: FW: EPR FP 3031CW Headland Document
Date: 02 July 2014 11:59:17
Attachments: [Attachment 1 tank incuding bund specification.pdf](#)

For Pub Reg

From: Carl Rowe [mailto:carl.rowe@headlandgroup.com]
Sent: 26 June 2014 13:48
To: Zachary, Aled
Subject: Re: EPR FP 3031CW Headland Document

Hello Aled

I have attached a copy of the Nitric Acid Bulk tank specification to this email. I have spoken with Brian Paul (Formulations Manager) who was heavily involved in the purchase of the Tank and he will send over some more information to me to pass on to you shortly.

With regards to the low level of fungicide in the drains reported on the 9th June drainage release report. The 9th June was the last drainage release on site, therefore I have asked the Lab to send away the next site drain release regardless, This will provide us with information on current status of site drainage content.

I will begin my investigation into this incident this afternoon and will send you a copy of the investigation findings, conclusions and any actions raised out of the investigation when complete.

Regards

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	INITIALS	DATE
OK FOR PUBLIC REGISTER	AZ	14/7/14
COPIED TO PUBLIC REGISTER	JB	EDM



1off **TA010CS25C** 26m³ Helix storage tank with a flat base and conical top. The tank is suitable for the storage Nitric acid 60% having a maximum specific gravity of 1.4 at 20°C and normal atmospheric pressure.

1off **TA010CR29C** 26m³ Helix safety bund to retain 110% of the tank contents.

Tank specification

◆ Tank design:	BS EN12573 -1:2000
◆ Design life:	10 years
◆ Warranty period:	12 months
◆ Material:	Black high density polyethylene PE 100
◆ Tank dimensions:	2,500mm int. diameter x 5,700 cylinder height.
◆ Bund dimensions:	2,900mm int. diameter x 4,350 cylinder height.
◆ Working pressure:	Atmospheric
◆ Design pressure:	Liquid head
◆ Working temperature:	Outside ambient
◆ Design temperature:	20° Celsius

Tank & bund supplied complete with the following fittings and connections.
[All flanges to BS4504 PN10/16 unless otherwise stated]

- ◆ 700mm bolted manway in tank roof
- ◆ 150mm flanged vent in tank roof with vent pipe to scrubber
- ◆ 100mm flange connection in tank roof (instrument)
- ◆ 50mm flange connection in tank roof with fill line & valves (fill connection)
- ◆ 100mm NB external overflow with lute pot and drain valve.
- ◆ 50mm outlet through bund wall c/w flexible coupling & isolation valve (outlet)
- ◆ 50mm flange connection in bund c/w valve (bund drain)
- ◆ Rainwater skirt complete with inspection hatch
- ◆ 4 off lifting eyes on tank and bund
- ◆ 4 off hold down plates
- ◆ Manufacturers identification plate

Item B. Water storage tank.

1off **TA010CS31C** 30m³ Helix storage tank with a flat base and conical top. The tank is suitable for the storage of town's water having a maximum specific gravity of 1.0 at 20°C and normal atmospheric pressure.

Tank specification

◆ Tank design:	BS EN12573 -1:2000
◆ Design life:	15 years
◆ Warranty period:	12 months
◆ Material:	Black high density polyethylene PE 100
◆ Tank dimensions:	3,084mm int. diameter x 4,550 cylinder height.
◆ Working pressure:	Atmospheric
◆ Design pressure:	Liquid head
◆ Working temperature:	Outside ambient

- ◆ Design temperature: 20° Celsius

***Tank & bund supplied complete with the following fittings and connections.
[All flanges to BS4504 PN10/16 unless otherwise stated]***

- ◆ 700mm bolted manway in tank roof
- ◆ 150mm mushroom vent in tank roof
- ◆ 100mm flange connection in tank roof (instrument)
- ◆ 50mm flange connection in tank roof (fill connection)
- ◆ 100mm NB external overflow to ground
- ◆ 50mm flanged connection in tank shell (outlet)
- ◆ 150mm flanged connection in tank shell (balance pipe)
- ◆ 1 off 1000mm HDPE balance pipe with flange connections (to connect 2 tanks)
- ◆ 1 off 150mm NB butterfly valve (isolation of balance pipe)
- ◆ 4 off lifting eyes on tank.
- ◆ 4 off hold down plates
- ◆ Manufacturers identification plate

Item C. Fume scrubber model BVS3r [re-circulating type]

Bulk vent scrubber model BVS3r manufactured in black HDPE complete with "pall rings" sized to accept pressurised road tanker deliveries of bulk nitric acid. Scrubber has the following dimensions: 500mm column diameter, 1,000mm base tank diameter x 4,560mm overall height with top discharge flange. An extension chimney will be fitted to ensure that any residual fume is vented clear of the roof line. The fume scrubber has the following flanged connections.

Item C. Fume scrubber model BVS3r [re-circulating type] - continued

- ◆ 150mm NB diameter gas inlet
- ◆ 4 x holding down feet
- ◆ 50mm NB drain flange
- ◆ 50mm NB Liquid feed pipe
- ◆ 450mm diameter packing access port
- ◆ Internal support rings, distributor support plate
- ◆ Packing media
- ◆ Recirculation pump & pipework (110volt)

Item E. Instrumentation.

Each tank will be fitted with "Hycontrol" ultrasonic level sensing units together with digital contents display. The panel housing the level display will be bracketed to the front of each tank. Each panel will be fitted with a high level alarm beacon, and for the Nitric acid tank a bund alarm beacon.