

***Non Entry Systems Ltd***

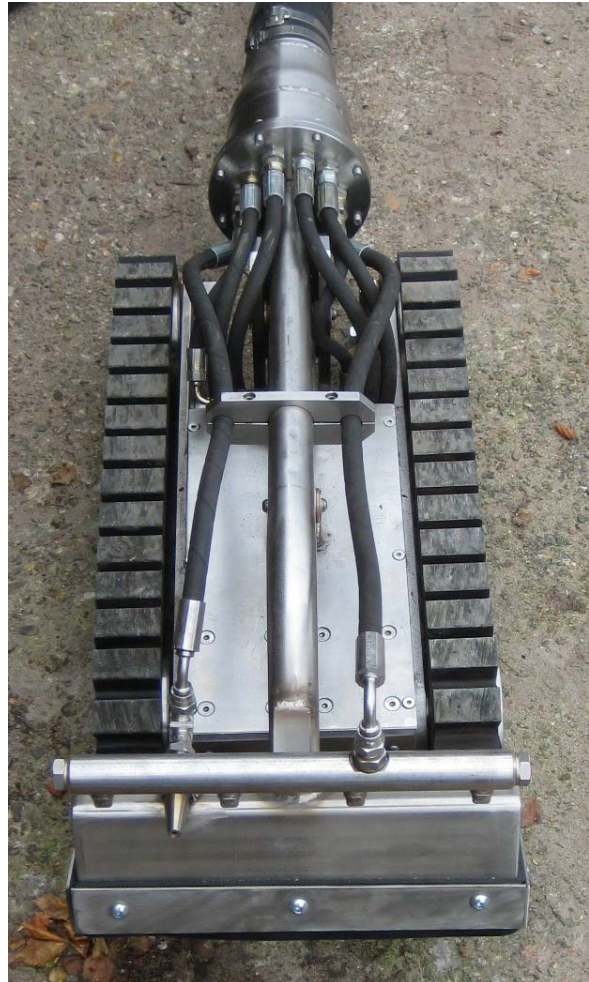


**For remote underground fuel tank cleaning**

**NESL ATEX PETRACK Suction and HP Jetting**



**Control Console**



**HP Jetting Ramp**



**Jet Cannon**



**Gas detector with video camera and light**

**Cleaning of service station underground fuel tanks remotely and safely**

**For more information contact Tony Bennett on +447733443777 or +447966152187**

**Fax: France +33(0)489862216 UK +44(0)8701370854**

**Email [oiltank@aol.com](mailto:oiltank@aol.com)**

*Non Entry Systems Ltd*



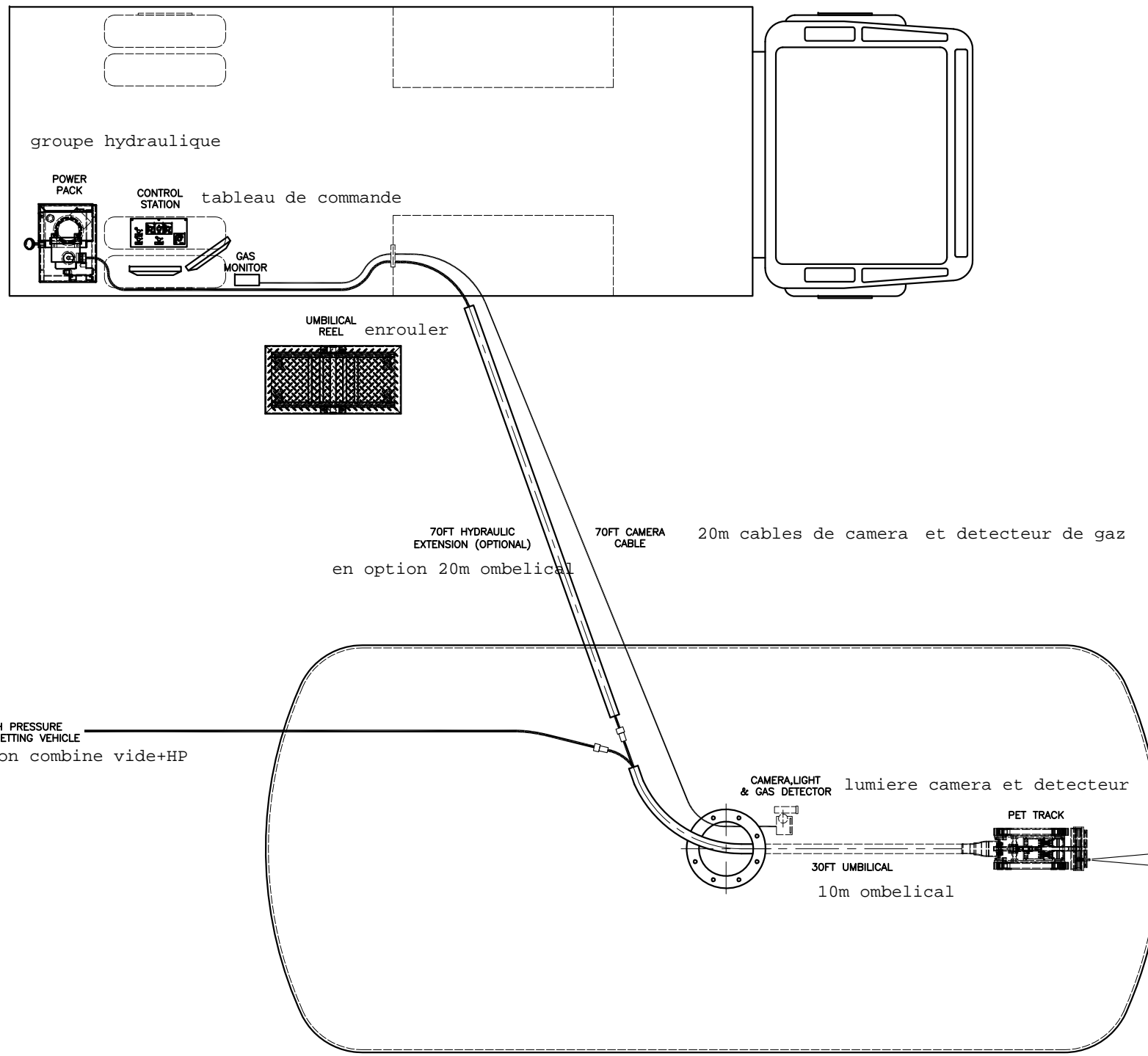
## **NESL PETRACK**

**For remote underground fuel tank cleaning  
without man entry**

The equipment is fitted into a van supplied by the client. Can also be supplied in kit form for client to fit in own vehicle.

The equipment comprises: A remote control console with the controls for Petrack, 2 flat screen monitors, camera and light controls, DVD recorder, gas detector with display and automatic shut down, manual emergency stop, electric hydraulic power pack with oil cooler, umbilical and reel. Electric generator (optional).

**PETRACK** is equipped with: two rubber tracks with hydraulic drive, HP jetting ramp and cannon. It also has a suction ramp with hydraulic lift. A camera and light with the gas detector mounted on a frame for insertion into the manway. All the equipment in the vehicle is EC, all the equipment used inside a tank is ATEX group 2 cat 2 and EC or UL508 and NEC



GENERAL NOTES:-

Rev	Date	DCR No	Drawn	Description	Checked	Approved
A	18/07/08	N/A	SJK	FOR INFORMATION	GS	DWS

DRAWN GENERALLY IN ACCORDANCE WITH BS8888  
DIMENSIONS IN MILLIMETRES (U.N.O)  
REMOVE ALL BURRS AND SHARP EDGES

GENERAL TOLERANCES UNLESS STATED

OVER	UP TO	FABRICATED	MACHINED
0	100	±0.75	±0.25
101	500	±1.5	±0.5
501	1000	±2.0	±1.0
1001	----	±3.0	±1.5

ANGULAR ±0.5°

3RD ANGLE PROJECTION

Non Entry Systems Ltd

Dragon House  
Bruce Road  
Forestfach Ind. Estate  
Swansea SA5 4HS  
United Kingdom

Tel: +44(0)1792 580455  
Fax: +44(0)1792 578610  
Email: intank@aol.com  
Web: http://nonentry.com

Client : 1st ADVANCED

Title : LAYOUT - PET TRACK ON-SITE LAYOUT

Drawn	SJK	18/07/08	Project No.	2576
Checked	GS	18/07/08	Scale	1:40 A3
Approved	DWS	18/07/08	Drawing No.	LA-2576-01
Finish:	N/A	Q.A.	Revision	A

DO NOT SCALE IF IN DOUBT ASK

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# Non Entry Systems Limited



Remote Systems For Hazardous Environments

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<i>Dragon House,</i>	<i>Telephone</i>	<i>01792 580455</i>	<i>Web Site</i>	<a href="http://www.nonentry.com">www.nonentry.com</a>
<i>Bruce Road,</i>	<i>Fax</i>	<i>01792 578610</i>	<i>Projects</i>	<a href="mailto:intank@aol.com">intank@aol.com</a>
<i>Fforestfach Industrial</i>	<i>Mobile</i>	<i>07971 581447</i>		<a href="mailto:darrenshipton@aol.com">darrenshipton@aol.com</a>
<i>Estate,</i>		<i>07967 471428</i>	<i>Sales</i>	<a href="mailto:oiltank@aol.com">oiltank@aol.com</a>
<i>Swansea,</i>		<i>07966 152187</i>	<i>Accounts</i>	<a href="mailto:nonentrysys@aol.com">nonentrysys@aol.com</a>
<i>SA5 4HS.</i>			<i>Electrical</i>	<a href="mailto:neslelectrical@aol.com">neslelectrical@aol.com</a>
			<i>Design</i>	<a href="mailto:neslcad@aol.com">neslcad@aol.com</a>

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1. The Van. With a large van supplied by the customer NESL will install all the equipment listed below. It is preferable for the van to be pre-lined with ply wood but NESL can contract a carpenter to do this. NESL will install a wooden bulkhead wall in the rear of the van to separate the system operator from the equipment storage end of the van.
2. The Petrack. The petrack is a small stainless steel Remote operated vehicle that can be utilised not only for the cleaning of petroleum forecourt tanks but is small enough to be utilised for a wide variety of purposes. The ROV comes complete with approximately 40 feet of umbilical attached to the vehicle. The ROV has a suction blade which can be connected to a VAC truck using the suction hose in the umbilical and also a small jetting nozzle and a scarifier blade. The scarifier blade is a row of pressure washer nozzles which will clean the floor directly in front of the suction blade. This blade unit will raise and lower hydraulically.
3. Extension Umbilical. With the ROV umbilical being only 40 feet, the unit comes with approximately 80 feet of secondary umbilical. This allows the operator to park the control vehicle in a safe are.
4. Storage reel. A reel is supplied for storage of the umbilical. This is located in the rear section of the control van.
5. Hydraulic power pack. The hydraulic power pack is supplied and is located alongside the reel. The unit is a 2.2kw power pack.
6. Overview camera and gas detection. These 2 units are combined into one. The unit is lowered into the tank with the top portion located outside the tank by resting on the manway. The gas detection is contained within the lower part of the camera unit, therefore will always be in the tank.
7. Control station. The operator will be seated and will have a small control unit containing joysticks and switches. He will have 2 display screens and a DVD hard drive recorder. The gas detector read out unit will be along side the operator. An alarm sounder is supplied and this will sound on the gas levels reaching alarm points and shut down the system.
8. Electrical parts of van. NEL will use marachel plugs and sockets for the incoming power and will supply, mounted to the vehicle, power points, MCB on the incoming power and lights in side the vehicle. There will be a control box mounted to the wall for camera / light / gas detection power selection options.

Not included in our supply: A combined suction and jetting tanker is required for the supply of Vacuum and High Pressure Water and a suitable 220/240 volt 20 amp electrical supply or a 5kva generator

Certification.    Petrack – ATEX Group II cat 2  
                          Camera / Light / Gas detection unit – ATEX Group II cat 2  
                          Extension Umbilical – ATEX Group II cat 2

All other equipment – Safe area CE

Registered Number : 3052061  
Director : D W Shipton

VAT Number: GB 666 896 169



Please find below some photographs of a previous system. Please ignore the vehicle. The customer supplied us with the most terrible looking old fire brigade response vehicle.

