

TYPE OF NOISE ASSESSMENT

Please tick the appropriate box.

Audible Warning		Equipment		Pump	X	Vehicle	X
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NOISE ASSESSMENT RECORDRef No – **NOI-PUM-011****Equipment / Vehicle Type**

Rapid Intervention Vehicle

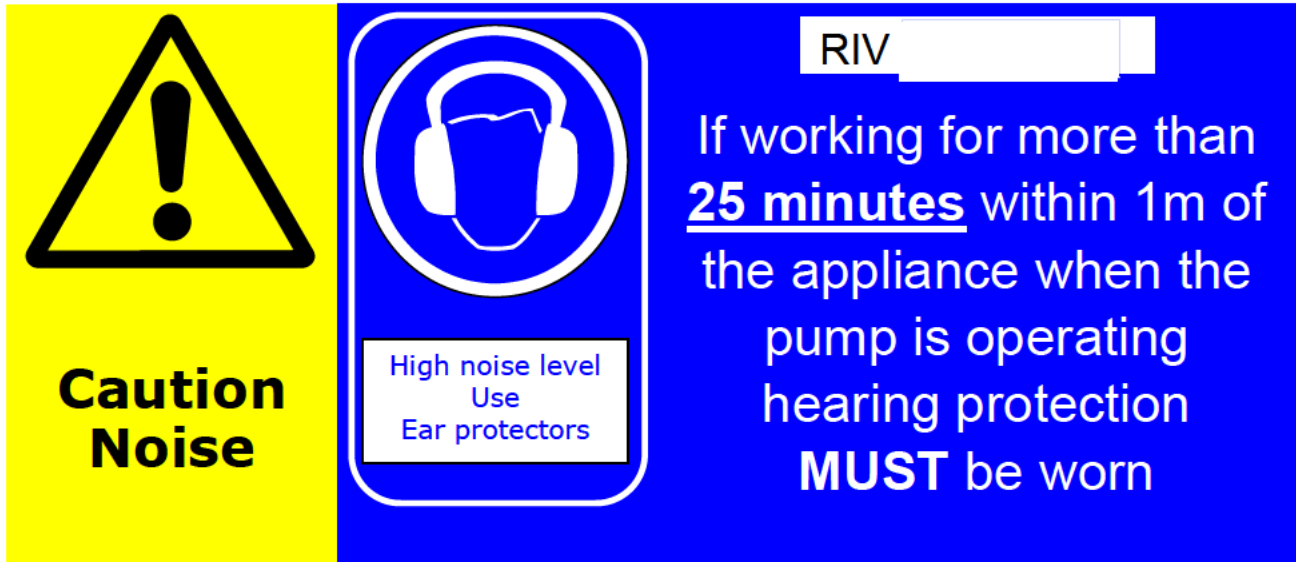
Model**Serial / Registration Number**

Descriptor (what is being measured):	Noise level of pump at rear of appliance to ascertain the exposure that the pump operator could be subjected to
Personnel who are likely to be exposed:	Pump Operator
Location or Route of Assessment, where applicable:	Rear of appliance
Typical frequency of exposure (daily, weekly etc.):	Varies but unlikely to be a daily occurrence due to work patterns/role of personnel and frequency of incidents where the pump is required to be operated.
Typical length of exposure (minutes):	Policy states that crews are to be relieved after 4 hours at an incident. Depending on the stage of the incident at that time, it may extend at times. Training supplied with the implementation of the appliances can include any rotation of the pump operators required at a protracted incident.

Measurements	Reading Level (L_{eq})	Reading Level(peak)	Location of monitor (where applicable)
Rear of vehicle 1m from fire pump at 7 bar low pressure	87.1 dBA	101.8 dBC	
Rear of vehicle 5m from fire pump at 7 bar low pressure	80.6 dBA	95.8 dBC	
Rear of vehicle 10m from fire pump at 7 bar low pressure	77.2 dBA	98.9 dBC	
Side of vehicle 1m from fire pump at 7 bar low pressure	88.8 dBA	104.2 dBC	
Side of vehicle 5m from fire pump at 7 bar low pressure	81.8 dBA	98.5 dBC	
Rear of vehicle 1m from fire pump at 25 bar high pressure	92.4 dBA	106.8 dBC	
Rear of vehicle 5m from fire pump at 25 bar high pressure	82.0 dBA	96.8 dBC	
Rear of vehicle 10m from fire pump at 25 bar high pressure	78.3 dBA	93.6 dBC	
Side of vehicle 1m from fire pump at 25 bar high pressure	89.5 dBA	104.2 dBC	
Side of vehicle 5m from fire pump at 25 bar high pressure	82.3 dBA	97.5 dBC	

1st Action Level (80dB(A) L_{epd}) (Lower Exposure Action Value)	Reached after: 25 minutes Action: hearing protection SHOULD be worn when working within 1m of the appliance when the pump is operating at high pressure.			
2nd Action Level (85dB(A) L_{epd}) (Upper Exposure Action Value)	Reached after: 80 minutes Action: hearing protection MUST be worn when working within 1m of the appliance when the pump is operating at high pressure.			
Date of survey:	06/12/2017 2017	Assessment type:	Specific	Reason for Survey: Initial
Instruments used	G061462, CR:162C		Date of last calibration: 17 May 2017	
Name of assessor & role	S40(2)(a) FOIA 2000 - Vehicle and Equipment Technician S40(2)(a) FOIA 2000 - H & S Officer		Date:	02/02/2018
Hearing Protection Calculation: (HSE Calculator)	H 27, M22, L20 Calculated level at the ear 74dBA Real world factor + 4dBA = 78dBA			
Hearing Protection Type:	Reusable ear plugs 3M 1271 service issue to be used when necessary			
Controls required Controls considered:	Comments / Additional Control Measures Required.			
Procedural	<input checked="" type="checkbox"/>	<p>This assessment is based on the highest readings recorded (worse-case scenario) when the pump was operating at high pressure (25 bar). Personnel should where practicable avoid working or waiting in the immediate vicinity of the appliance.</p> <p>In accordance with Service Policy the maximum exposure time is aligned to the Lower Exposure Action Value (80dB(A) L_{epd}) rather than the legal requirement of the Upper Exposure Action Value (85dB(A) L_{epd}). Therefore on reaching the LEAV hearing protection should be worn.</p> <p>NB. It should be noted that where situations dictate the OiC may extend the exposure time to 80 Minutes which equates to the Upper Exposure Action Value of 85dB(A) L_{epd}. However when deciding whether or not to extend the exposure time consideration must be taken with regard to exposure to other noisy equipment which operators may use.</p>		
Technical	<input checked="" type="checkbox"/>			
Other	<input checked="" type="checkbox"/>			
Label Attached	<input checked="" type="checkbox"/>			

This label should be clearly displayed in the vehicle cab
and in the pump bay



If it is noticed that the label is missing please contact either the Engineering Workshops at Chelston or the Health & Safety Department at SHQ for a replacement.