

RAMS for Monthly / 3 Monthly Service and Remedial Work to Breathing Air Compressors (stationary, electrically powered)

Client Name and Site Address	RAMS Reference	Service Order	RAMS prepared by	Date	Version Number
Shropshire Fire & Rescue Tweedale Fire Station Bridgnorth Road Madeley Telford TF7 4JD	460	34557	[REDACTED]	27/10/23	2

1.0 CONTACTS, COMPETENCIES AND SCHEDULE			
Name	Position	Contact Details	Additional Information
[REDACTED]	Service Engineer	[REDACTED]	
[REDACTED]	Service Manager	[REDACTED]	
[REDACTED]	Service Co-Ordinator	[REDACTED]	
[REDACTED]	Managing Director	[REDACTED]	01942 [REDACTED]
[REDACTED]	QHSE Manager	[REDACTED]	01942 [REDACTED]
1.1	No. OF PERSONNEL/JOB TITLE:	1 Engineer – [REDACTED]	
1.2	COMPETENCES REQUIRED FOR THE WORK:	The work will be carried out by an experienced Bauer-trained Engineer who is CCNSG qualified. Only BUK engineers carry out the work and are supported by the Bauer Service Manager who has over 30 years' experience in working with high pressure air and gas.	
1.3	SPECIAL TRAINING:	Internal Training – Bauer Training Academy – compressor/ product training.	
1.4	START DATE AND WORKING HOURS	01/11/23 – 08:30-17:00	

1.5	DURATION OF WORKS	4 Hours
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2.0	EQUIPMENT, TOOLS AND WASTE	
2.1	PLANT/EQUIPMENT TOOLS: <i>This section is a list of plant and equipment that may be used on site.</i>	Hand Tools Air Purity Test Kit NOTE: All equipment that provides validity of measurement results will be calibrated. Copies of calibration certificates are available upon request.
2.2	MATERIALS: <i>A comprehensive list of materials is to be entered here. This will highlight which COSHH Assessments and Health & Safety Data Sheets should be attached to the Method Statement.</i>	All materials as per the Service Order quoted on page 1. <i>Including but not limited to the following:</i> Synthetic Oil Filter Cartridges O-Rings and gaskets Air Purity Test Materials
2.3	TECHNICAL INFORMATION: <i>Any information that is critical to the safety of the project; this may include elements of the engineer's reports, any design drawings, manuals or specifications that may be available.</i>	Bauer Engineer to produce a service report following completion of the works which will be issued to the customer through Bauer service team. Any further technical information including test certification, manuals will be provided as necessary.
2.4	WASTE REMOVAL: <i>How will waste be removed from site? Consider location of skips, provision of bins and what collection / removal arrangements will be put in place</i>	Task will involve the generation of small amounts of waste. Skips & receptacles for general waste to be provided by the customer. Any hazardous waste such as waste oil / filters & cartridges will be removed from site by Bauer Engineers – Bauer UK hold necessary waste carrier's licence for removal of such hazardous waste – copy of WCL available upon request.
2.5	HOUSEKEEPING: <i>How will materials be stored on site</i>	Operatives MUST ensure their work areas are always kept clean & tidy.
3.0	RISK ASSESSMENTS, COSHH & EMERGENCIES	
3.1	RISK ASSESSMENTS INCLUDED:	BUK-RA009 - Manual Handling BUK-RA033 – Lone Working BUK-RA037 – Servicing and Maintenance
3.2	COSHH: <i>List all hazardous substances to be used. COSHH Assessments to be listed & attached.</i>	Bauer Synthetic Oil, Part Number N28355 Rocol Leak Detector Spray

3.3	MANUAL HANDLING: What activities require manual handling	Manual handling is minimal on this project with items weighing less than 25kg.
	<i>Can Manual handling be avoided</i>	YES (majority of the time)
	<i>Are the operatives trained in Manual handling</i>	YES
		Items to be handled less than 25kg
3.4	EMERGENCY ARRANGEMENTS	<p>Injury or accident: In the event of a medical emergency or serious accident, the emergency services will be called to site (all Bauer engineers have company mobile phones). If the injury or medical issue is not debilitating, arrangements will be made to take the person to the nearest hospital (using information obtained from Google or from the site's own safety management</p> <p>Fire: All Bauer vehicles carry ABC foam extinguishers. If the fire can be put out easily and safely an extinguisher will be used. If not, the Fire and Rescue Service will be called for assistance.</p> <p>All accidents are reported and investigated.</p>
3.5	Lone Working	<p>Arrangements must be made with the attending engineer for a customer representative to check on the welfare of the engineer at agreed intervals of no more than 30 minutes as a lone worker control measure.</p> <p>In the event of a catastrophic failure of equipment or serious adverse event please call 01942 [REDACTED]</p>
3.6	First Aid	<p>Engineer holds EFAW certification – first aid kit available in works vehicle – Customer to provide additional first aid as necessary.</p> <p>On site medical facilities are available on site to be provided to BUK service engineer in the event of an adverse event causing injury or ill health as a result of works undertaken on site as detailed above.</p>
3.7	Fire Safety Arrangements	<p>The site management is to provide arrangements for fire safety during all works.</p> <p>No further / specialist fire safety precautions / controls required for this project.</p>
3.8	Address of nearest A&E facility	<p>Princess Royal Hospital Apley Castle Grainger Drive Telford TF1 6TF 01952 641222</p>

4.0	NOISE/DUST/FUMES/VIBRATION: <i>What activities will generate noise, dust/fumes, or vibration?</i>				
4.1	DUST/FUMES For projects / tasks that require further assessment contact Bauer's QHSE Manager.	Dust / Fumes are not considered a risk for this project no additional controls / LEV extraction or PPE is necessary.			
4.2	NOISE For projects / tasks that require further assessment contact Bauer's QHSE Manager.	Task / Tool	Sound Level dB(A)	Av Level Duration	Partial Exposure
		Running Compressor (Testing)	97	30 mins	85.0
		<p>The worker's daily noise exposure is above the criterion level of 85 dB.</p> <p>Action / control measures:</p> <ul style="list-style-type: none"> • Reduce the noise at source wherever possible. • Instruction & training about hearing damage and protection. • Provide suitable hearing protection, which must be worn. • Carry out regular monitoring of the noise levels to ensure they have not increased. • Audiometry carried out for engineers as part of occupational health programme. <p>Hearing Protection with an SNR of 24 – 28 MUST be worn when carrying out or in the vicinity of the above activities This will provide adequate protection.</p>			
4.3	VIBRATION EXPOSURE For projects / tasks that require further assessment contact Bauer's QHSE Manager.	Based on the use of the following tool(s) the engineer will NOT exceed the Exposure Action Value of 2.5m/s ² or 100 points per day.			
		Hand Tools			
5.0	<p>ACCESS / EGRESS:</p> <p><i>Describe access, both on to site and to the workplace once on site. This section could also be used to describe availability of on- and off-site parking for contractors. Consideration of movements of operatives, vehicles, waste, materials.</i></p> <p>Access / egress to & from the workplace to be always kept clear. Customer to ensure suitable access / egress to / from the workplace is available at all times for the duration of the works. Any special arrangements or control measures for access / egress required for this project to be briefed by SITE prior to BUK engineer commencing works.</p>				

5.1	PERMITS REQUIRED: YES / NO	Yes
5.1	PERMIT TYPE:	Permit to Work to be issued in accordance with SITE conditions / site rules to be issued to BUK engineer prior to works commencing.
5.2	ISSUED BY:	Site management
5.3	SECURITY ARRANGEMENTS: Details of any special security arrangements to be included.	Site management is responsible for security arrangements. BUK engineer will comply with site security arrangements as instructed during site induction.
6.0	MANDATORY SITE PPE (DELETE AS APPLICABLE)	
6.1	Hard Hat, Safety Footwear, work wear, Hi-vis Clothing, Gloves, Safety glasses, Hearing protection	
6.2	TASK SPECIFIC PPE: Identified as per risk assessment. Polycarbonate/acetate face shield or safety glasses	
6.3	TASK LIGHTING: The customer is responsible for site lighting for the duration of the works.	

7.0	SEQUENCE OF WORKS / SAFE OPERATING PROCEDURE:
	<p>The following is the safe working method for the Monthly / 3 Monthly Service & Repair:</p> <p>Prior to works commencing, the Bauer Engineer is to report to site contact and is to attend any necessary site induction. Ensure the work area is safe.</p> <ol style="list-style-type: none"> 1. Carry out a visual inspection of the equipment. Do not operate the unit if there are any signs of damage or deterioration. 2. Remove the compressor cabinet side panels (if fitted). Do not operate the equipment without the belt / fan guard in place. 3. Check compressor oil level is within the required limits. Top up as necessary. 4. Ensure all filling valves and drain taps are in the closed position. 5. Turn on the electrical supply to the compressor. 6. Carry out a short test run and check the pressure maintaining valve opening pressure is set at 180 bar +/- 10%. This is performed by observing the pressure gauge on the HP separator when the outlet pressure begins to rise. Adjust as necessary in accordance with the manufacturer's instructions. 7. Once the compressor stops, check the operation of the non-return valve. The NRV function can be assured if no significant pressure loss at the pressure gauge on the HP separator is observed. 8. Check that the compressor shut off pressure is in accordance with the customer's requirements. Adjust as necessary. 9. Ensure the Automatic Condensate Drain (ACD) valves are operating correctly. Correct function of the ACDs can be determined by opening the manual drain taps once the draining noise of the ACD system has ceased. No air or condensate should be observed if the valve is functioning correctly. 10. Restart compressor and allow to run for two minutes with scavenge valve in the open position. 11. Perform an air purity test to EN12021:2014 12. If the compressor passes the air purity test, proceed to step 17. If the compressor fails due to high moisture or high Carbon Dioxide content, proceed to step 13. Should the compressor fail on high oil mist or Carbon Monoxide contact, contact your line manager. The compressor is to be locked off at the mains isolator switch and a tag fitted containing details of the fault. 13. Isolate the compressor from the electrical supply and drain compressor of residual pressure via the filter drain tap. 14. Replace filter cartridge, filter body O-ring and back-up ring. 15. Reinststate the electrical supply and close filter drain tap. 16. Repeat step 10. 17. Ensure the work area is left in a tidy condition.
8.0	SIGNATURE –
	Bauer RAMS are usually signed for electronically. This section only needs to be used if the RAMS need to be printed, and signed, for the Customer.
	Name:
	Signature:
	Date: