

ACS.CoNGLP1 LAV SAFETY ASSESSMENT CRITERIA INITIAL & RE-ASSESSMENT DOMESTIC NATURAL GAS TO LPG LEISURE ACCOMODATION VEHICLES

CoNGLP1 LAV

INITIAL & RE- ASSESSMENT

Introduction

Comprises:

- 3(b). LPG supply pressures. Operation and positioning of emergency isolation, flow control and valves
- 3(c) LPG cylinder and vessel location, safety and sizing
- 4. Ventilation (for appliances)
- Installation of pipework and fittings
- 12. Chimney standards
- 13. Chimney inspection and testing.

CoNGLP1 LAV can only be awarded when the Candidate holds CoNGLP1.

CBs may adopt Competence and Criteria numbering different to that used in this document.

CB documentation may adopt wording for criteria different to that used in this document, provided the meaning is unaffected.

Range

All LPG fittings in LAVs.

Exclusions

Refillable tank installation

Pre-requisites

Initial

CoNGLP1.

Re-assessment

CoNGLP1 + CoNGLP1 LAV.

References and normative documents

MIs.

All relevant documents as listed in the Legislative, Normative & Informative Document List (LINDL), inc.:

- HSL56
- GIUSP
- BS EN 1949:2011.
- BS 5482-2:1977
- BS 721

ACS.SMB. 003.ACRND identifies Normative Documents that should be held by ACs.

Abbreviations

AC. Assessment Centre

CB. Certification Body

I. Initial

MIs. Manufacturer's/manufacturers' instructions

MP. Medium pressure

R. Re-assessment

Ref. Reference

UPSO. Under pressure safety cut-off

3(b). LPG supply pressures, Operation and positioning of emergency isolation, flow controls and valves

KNO	WLEDGE AND UNDERSTANDING	REF	I	R
1.	recognition of supply pressures from gas storage vessels: MP stage		✓	✓
2.	operation and positioning of first and second stage regulators		✓	✓
3.				
4.				
5.				
6.	identification of causes of under-pressure conditions		✓	•
7.	operation, positioning and visible indicators of UPSOs		✓	
8.	re-setting UPSOs		✓	
9.	operation and positioning of limited relief valve		✓	
10.	advice to the consumer on re-setting UPSO		√	
11.	operation and positioning of vapour service shut-off valve		√	
12.	Protection against accidental disconnection of supply		√	

3(c). LPG cylinder and vessel location and safety

KNO	OWLEDGE AND UNDERSTANDING	REF	I	R
1.	cylinders:			
(i)	installation, location and protection for Propane and Butane cylinders		✓	✓
(ii)	construction for compartments, lockers and internal housings		✓	✓
(iii)	safety precautions for storage and use of cylinders		✓	✓
(iv)	Shielding requirements for cylinder compartments		✓	✓
(v)	requirements when using two LPG supplies		✓	✓
(vi)	ventilation safety precautions for storage of cylinders		✓	✓
2.	vessels:			
(i)	installation		✓	✓
(ii)	marking of common vessels commercially available for single supply		✓	✓
(iii)	location		✓	✓
3.	restrictions for electrical equipment in cylinder compartments			
(i)	only ELV equipment and cables not connecting within compartment allowed		✓	✓
(ii)	not a potential source of ignition		✓	✓
(iii)	protection against mechanical damage		✓	✓
4.	requirements when using two LPG supplies (including labelling)		✓	✓
5.	Visual inspection of gas storage tank (non-propulsion)		✓	√

4. Ventilation (for appliances)

KNO	OWLEDGE AND UNDERSTANDING	REF	I	R
1.	siting of ventilation (wall, window, floor, ceiling and ducted) direct to outside air, or via series air vents		√	
2.	calculating ventilation for combustion (PC for Re-assessment) (BS 5482-2)		✓	✓
3.	Habitable compartments , minimum Safety ventilation exercise for fixed ventilation openings non room sealed appliances for caravans and motor caravans.		√	*
(i)	Habitable compartments , minimum Safety ventilation exercise for fixed Ventilation openings for non-room sealed appliances for Caravan holiday homes		√	√
4.	calculating ventilation for enclosed spaces - cupboards, compartments for open, balanced and fan assisted flued appliances (PC for Re-assessment)		√	✓
(i)	prohibited zones for discharge openings for the products of combustion in relation to ventilators		√	√
5.	Habitable compartments > 10m ²		✓	✓
(i)	Alternative safety ventilation arrangements for Caravan Holiday Homes Habitable compartments > 20m² floor area, including the use of trickle ventilators		√	√
6.	flueless appliances		✓	
7.	restrictions on use of screens to prevent entry of vermin		✓	
8.	positioning of trunked ventilation into a space containing a gas appliance(s)		✓	
9.	High level safety ventilation if not supplied via a roof vent.		✓	✓

10.	gas dispersal drains (drop holes)	✓	✓
11.	labels, and where a cooking warning notice is required	✓	✓

5. Installation of pipework and fittings (and fuel cells and power generators). Range of pipe sizes: 6 mm to 35 mm

PER	FORMANCE CRITERIA	REF	I	R
1.	join soft copper pipe using appropriate compression fittings, methods and agents		✓	✓
KNC	WLEDGE AND UNDERSTANDING	REF	I	R
1.	copper pipe and fittings – suitability and use (hard soldering)		✓	✓
2.	locations where LPG pipework is not to be installed		✓	
3.	installing fuel cells		✓	✓
4.	installing LPG power generators			
(i)	sealing and ventilating and fire protecting generator compartment		✓	✓
(ii)	accessibility of controls		✓	✓

12. Chimney Standards (for appliances)

KNO	WLEDGE AND UNDERSTANDING	REF	I	R
1.	flue systems:			
(i)	Flue system Installations requirements		✓	
(ii)	Additional expectations for flexible flue systems.		✓	
(iii)	Flue shielding and routing requirements.		✓	✓
2.	closed flue systems: natural draught: specific flue heights and termination positions for closed flues		✓	✓
3.	balanced & fanned flue appliances:			
(i)	restrictions for flue termination positions		✓	
4.	Underfloor discharge arrangements		✓	✓
5.	Additional restrictions for flue terminations >30 g/h LPG in relation to Ventilators.		√	√
6.	Automatic shut off devices for flue terminations >30 g/h LPG in relation to windows		✓	√
7.	flue terminations >30 g/h LPG in relation to windows		√	√
8.	flue terminations in relation to refuelling system, breather tank, ventilators e.t.c		√	√

13. Flue inspection and testing

PERFORMANCE CRITERIA	REF	I	R	
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1.	inspect flue visually to Liquid Gas UK COP21: identify closed flue defects	✓	✓
2.	carry out closed flue spillage test	✓	✓
3.	Inspection and accessibility of flues	✓	✓

N.B. Gas flue requirements for appliances should be assessed in accordance with appliance MIs and BS EN 1949.