California Environmental Protection Agency AIR RESOURCES BOARD	MARSON INTERNATIONAL, LLC	EXECUTIVE ORDER U-U-167-0002 New Off-Road Small Spark-Ignition Equipment

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following equipment produced by the manufacturer is certified as described below. Production equipment shall be in all material respects the same as those for which certification is granted.

ENGINE DESCRIPTION

MANUFACTURER	ENGINE FAMILY (E.O. NUMBER)	ENGINE SIZE (cc)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
ONAN CORPORATION	7N5XS.1971GG (U-U-008-0157)	197	Gasoline
	6N5XS.1971GG (U-U-008-0147)	197	
GENERAC POWER SYSTEMS, INC	7GNXS.2161SA (U-U-027-0160)	216	

TBC = To Be Certified

EQUIPMENT DESCRIPTION

MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK SIZE (liters)	EQUIPMENT APPLICATION
2008	CMRVRV1	37.8, 64.3, 68.1, 75.7, 83.2, 90.8, 105.9, 113.5	Generator Set, Generator w/ Refueling Station

EMISSION CONTROL SYSTEMS (ECS)	ENGINE and/or EQUIPMENT MODEL
Canister / Metal	See Attachment

A. **ECS TYPE** (Venting Control Type/Tank Barrier Type): 1. **Venting Control Type and Code**:- Canister=C Sealed Tank=S Other=O 2. **Tank Barrier Type and Code**:- *Metal=M Treated HDPE or PE=P* Co-extruded=C Selar=L Nylon=N Acetal=A Other=O B. **EVAPORATIVE FAMILY 2-Letter CODE** (Venting Control Codes =C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). **Note**: Always list venting control type or code first before tank barrier type or code. Do not use abbreviations for ECS types.

The following are the evaporative emission standards (Title 13, California Code of Regulations, 13 CCR Section 2754(a) or 2754(b), as applicable), and certification levels in grams per day (g/day) or grams per square meter per day ($g/m^2/day$) or grams per liter (g/l) for this evaporative family or the component Executive Order, as applicable. The running loss emissions control has been demonstrated by the manufacturer.

*=not applicable	PERFORMANCE BASED (grams HC/day)		
STANDARD	EVAPORATIVE FAMILY EMISSION LIMIT DIFFERENTIAL (EFELD)	EVAPORATIVE MODEL EMISSION LIMIT (EMEL)	CERTIFICATION LEVEL
1.20 + 0.056*Tank Vol. (L)	0.3	= (STANDARD) – (EFELD)	2.3

BE IT FURTHER RESOLVED: That the evaporative model emission limit (EMEL), as applicable, is the diurnal emissions level declared by the manufacturer based on diurnal test results for a worst-case engine or equipment model within an evaporative family. No engine or equipment emissions within the evaporative family could be closer to its respective standard than the evaporative family emission limit differential (EFELD) calculated from the declared EMEL for the worst-case engine or equipment.

BE IT FURTHER RESOLVED: That the evaporative family emission limit differential (EFELD), as applicable, is an emission level differential between the effective standard level for a specific model representing the entire evaporative family and the EMEL declared for the specific model and it's for use in the averaging and banking program. It serves as the applicable evaporative emission standard for determining compliance on a corporate average basis of any equipment within this evaporative family under 13 CCR Sections 2754.1(e).

BE IT FURTHER RESOLVED: That for the listed equipment, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2759 (labeling) and 13 CCR Sections 2760 and 2764 (emission control system warranty).

Equipment certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Equipment in this family that is produced for any other model-year is not covered by this Executive Order.

Executed at El Monte, California on this 2 day of October 2008.

Annette Hebert, Chief
Mobile Source Operations Division

Attachment 1 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV10			X	I	FI	37.8	0.800476	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV10			X	I	FI	37.8	0.800476	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV10			X	I	FI	37.8	0.800476	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

(1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV10			X	I	FI	37.8	0.800476	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV10			X	I	FI	37.8	0.800476	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV10			X	I	FI	37.8	0.800476	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-015

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV17			X	I	FI	64.3	1.2552	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV17			X	I	FI	64.3	1.2552	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV17			X	I	FI	64.3	1.2552	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV17			X	I	FI	64.3	1.2552	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV17			X	I	FI	64.3	1.2552	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV17			X	I	FI	64.3	1.2552	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-015

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 5 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV18			X	I	FI	68.1	1.32035	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV18			X	I	FI	68.1	1.32035	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV18			X	I	FI	68.1	1.32035	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 6 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV18			X	I	FI	68.1	1.32035	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV18			X	I	FI	68.1	1.32035	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV18			X	I	FI	68.1	1.32035	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-015

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 7 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV20			X	I	FI	75.7	1.44998	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV20			X	I	FI	75.7	1.44998	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV20			X	I	FI	75.7	1.44998	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 8 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV20			X	I	FI	75.7	1.44998	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV20			X	I	FI	75.7	1.44998	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV20			X	I	FI	75.7	1.44998	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	[illegible]

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 9 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV22			X	I	FI	83.2	1.58028	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV22			X	I	FI	83.2	1.58028	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV22			X	I	FI	83.2	1.58028	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 10 of 14 U-U-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV22			X	I	FI	83.2	1.58028	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV22			X	I	FI	83.2	1.58028	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV22			X	I	FI	83.2	1.58028	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-015

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 11 of 14 UU-167-0002

(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV24			X	I	FI	90.8	1.70992	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV24			X	I	FI	90.8	1.70992	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV24			X	I	FI	90.8	1.70992	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 12 of 14

U-U-167-0002

(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV24			X	I	FI	90.8	1.70992	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV24			X	I	FI	90.8	1.70992	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-015
	RV24			X	I	FI	90.8	1.70992	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-015

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV28			X	I	FI	105.9	1.96985	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV28			X	I	FI	105.9	1.96985	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV28			X	I	FI	105.9	1.96985	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)

Attachment 14 of 14

N-N-167-0002

Small Off-Road Evaporative Certification Database Form
(Supplementary Information)

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m^2)	S8. Fuel Line Type	S9. Nominal Fuel Line Length[1] (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust Family Engine Code	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State											
	RV30			X	I	FI	113.5	2.06193	Multi-layer	609.6	4.78 ± 0.51	7N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
	RV30			X	I	FI	113.5	2.06193	Multi-layer	609.6	4.78 ± 0.51	6N5XS.1971GG	Exempt (Steel)	G-05-018	Q-07-016
X	RV30			X	I	FI	113.5	2.06193	Multi-layer	609.6	4.78 ± 0.51	7GNXS.2161SA	Exempt (Steel)	G-05-018	Q-07-016

1) The nominal fuel line lengths can be grouped into increment of ± 3 inches (76 mm)