California Environmental Protection Agency **Air Resources Board**	**SCAG POWER EQUIPMENT**	**EXECUTIVE ORDER U-U-089-0031-2** 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)
BRIGGS & STRATTON CORPORATION	See Attachment	479, 724 810	Gasoline
KOHLER COMPANY	See Attachment	725, 747	Gasoline
KAWASAKI HEAVY INDUSTRIES, LTD.	See Attachment	603, 726 745, 852	Gasoline

S.A. = See Attachment
TBC = To Be Certified

EQUIPMENT DESCRIPTION

MODEL YEAR	EVAPORATIVE FAMILY	FUEL TANK SIZE (liters)	EQUIPMENT APPLICATION
2013	COSCGDRLP	11.8, 15.1, 19.0, 18.8, 20.0, 20.7, 22.7, 29.3, 32.2	Walk-Behind Lawnmower, Riding Mower, Commercial Turf

EMISSION CONTROL SYSTEMS (ECS)	ENGINE and/or EQUIPMENT MODEL
Canister/Other	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	DESIGN BASED				
FUEL HOSE PERMEATION (grams ROG/m^2/day)		FUEL TANK PERMEATION (grams ROG/m^2/day)		CARBON CANISTER BUTANE WORKING CAPACITY (grams HC/liter)	
STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER	STANDARD	CERTIFICATION LEVEL OR EXECUTIVE ORDER
15	G-05-018, C-U-05-009, C-U-05-013	1.5	Q-08-027A	1.4	Q-09-021, Q-09-023

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.

This Executive Order hereby supersedes Executive Order U-U-089-0031-1 dated September 17, 2012.

Executed at El Monte, California on this 9 day of January 2013.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 3

U-U-089-0031-2

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

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Engine or 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	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											
	SFW36-481FS SFW48-481FS	X			II	CARB	19.0	.51	CPE	697	6.35	CKAXS.6032CA DKAXS.6032CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	SW32-481FS SW36A-481FS SW48V-481FS SW52V-541FS SWZ36A-481FS SWZ-481FS-16 SWZ48V-541FS SWZ-541FS-16 SWZ52V-600FS SWZ-600FS-16 SWZ-600FS	X			II	CARB	19.0	.51	CPE	748	6.35	CKAXS.6032CA DKAXS.6032CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	SWZT36-481FS SWZT48-481FS SWZT48-541FS SWZT52-600FS	X			II	CARB	19.0	.51	CPE	799	6.35	CKAXS.6032CA DKAXS.6032CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	SVR36A-541FS	X			II	CARB	18.8	.48	CPE	824	6.35	CKAXS.6032CA DKAXS.6032CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SFZ48-600FS	X			II	CARB	22.7	.83	CPE	1205	6.35	CKAXS.6032CA DKAXS.6032CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SVR36A-600FX	X			II	CARB	18.8	.48	CPE	824	6.35	CKAXS.6032CB DKAXS.6032CB	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	SWZ-651FSE	X			II	CARB	19.0	.51	CPE	778	6.35	CKAXS.7262CA DKAXS.7262CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	STC48V-651FS	X			II	CARB	11.8 15.1	.51 .55	CPE	2480	6.35	CKAXS.7262CA DKAXS.7262CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023

	SFZ52-691FS SFZ61-730FS	X			II	CARB	22.7	.83	CPE	1362	6.35	CKAXS.7262CA DKAXS.7262CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SVR48V-691FX	X			II	CARB	18.8	.48	CPE	854	6.35	CKAXS.7262CC DKAXS.7262CC	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	SVR52V-730FX	X			II	CARB	29.3	.66	CPE	854	6.35	CKAXS.7262CC DKAXS.7262CC	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	STC52V-691FX STC61V-730FX	X			II	CARB	11.8 15.1	.51 .55	CPE	2480	6.35	CKAXS.7262CC DKAXS.7262CC	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SCZ48V-691FX SCZ52V-730FX	X			II	CARB	20.7 20.0	.74 .72	CPE	2276	6.35	CKAXS.7262CC DKAXS.7262CC	Q-08-027A	G-05-018 C-U-05-013	Q-09-021 Qty = 2
	STT61V-791DFI STT-791DFI	X			II	FI	32.2	.97	CPE	1143 305 57	6.35 7.94 12.70	CKAXS.7452IB DKAXS.7452IB	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SVR61V-801FX	X			II	CARB	29.3	.66	CPE	919	6.35	CKAXS.8522CA DKAXS.8522CA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SFW36-16BV SFW48-16BV	X			II	CARB	19.0	.51	CPE	533	6.35	CBSXS.4792VC DBSXS.4792VC	Q-08-027A	G-05-018 C-U-05-013	Q-09-021
	SFZ48-26BS	X			II	CARB	22.7	.83	CPE	838	6.35	CBSXS.7242VA DBSXS.7242VA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	STC48V-26BS	X			II	CARB	11.8 15.1	.51 .55	CPE	3149	6.35	CBSXS.7242VA DBSXS.7242VA	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SFZ52-27BS	X			II	CARB	22.7	.83	CPE	914	6.35	CBSXS.7242VN DBSXS.7242VN	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	STC48V-27BS	X			II	CARB	11.8 15.1	.51 .55	CPE	3149	6.35	CBSXS.7242VN DBSXS.7242VN	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SCZ48V-28BS SCZ52V-28BS	X			II	CARB	20.7 20.0	.74 .72	CPE	3022	6.35	CBSXS.8102VS DBSXS.8102VS	Q-08-027A	G-05-018 C-U-05-013	Q-09-021 Qty = 2
	STC48V-25CV	X			II	CARB	11.8 15.1	.51 .55	CPE	2895	6.35	CKHXS.7252GC DKHXS.7252GC CKHXS.7252GV DKHXS.7252GV	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SCZ48V-25CV	X			II	CARB	20.7 20.0	.74 .72	CPE	2178	6.35	CKHXS.7252GC DKHXS.7252GC CKHXS.7252GV DKHXS.7252GV	Q-08-027A	G-05-018 C-U-05-013	Q-09-021 Qty = 2
	STC52V-27CV STC61V-27CV	X			II	CARB	11.8 15.1	.51 .55	CPE	2895	6.35	CKHXS.7252GV DKHXS.7252GV	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	SCZ52V-27CV	X			II	CARB	20.7 20.0	.74 .72	CPE	2178	6.35	CKHXS.7252GV DKHXS.7252GV	Q-08-027A	G-05-018 C-U-05-013	Q-09-021 Qty = 2

	SCZ48V-25CV-EFI SCZ52V-27CV-EFI	X			II	FI	20.7 20.0	.74 .72	CPE	2300	6.35	CKHXS.7472PC DKHXS.7472PC	Q-08-027A	G-05-018 C-U-05-013	Q-09-023
	STT52V-29CH-EFI STT61V-29CH-EFI STT-29CH-EFI	X			II	FI	32.2	.97	CPE	1618 51	6.35 7.94	CKHXS.7472PC DKHXS.7472PC	Q-08-027A	G-05-018 C-U-05-009 C-U-05-013	Q-09-023

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