State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-353-17
Relating to Exemptions under Section 27156
of the Vehicle Code

Miller Catalyzer Corporation
"Series 31000 OBD II Compliant Three-way Catalytic Converter"

WHEREAS, Vehicle Code Sections 27156 and Section 2222(h), Title 13, California Code of Regulations (hereafter "CCR"), authorize the California Air Resources Board and its Executive Officer to exempt new aftermarket catalytic converters from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Miller Catalyzer Corporation of 3295 Depot Road, Hayward, California 94545, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Section 27156 to market its new aftermarket Series 31000 three-way catalytic converter (TWC) for installation on selected 1996 through 2001 model year General Motors (GM) trucks equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-353-17 and incorporated herein. The Series 31000 TWC will be used for dual parallel (2 units) exhaust system applications for selected GM trucks.

Series 31000 TWC may also be installed on non-OBD II vehicles (1995 and older) similar in engine and exhaust configuration to those listed in Appendix D-353-17.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Operations Division by Health and Safety Code Section 39516 and Executive Order G-02-003, Air Resources Board finds that the above aftermarket catalytic converter complies with the California Vehicle Code Section 27156 and Title 13, California Code of Regulations, Section 2222(h). The emissions performance of the catalytic converter was based on durability bench-aging by Delphi Energy and Chassis Systems using Air Resources Board-modified RAT-A bench-aging cycle for 100 hours, as specified in the "Optional Evaluation Procedures for New Aftermarket Non-original Equipment Catalytic Converters Equipped with On-Board Diagnostic II (OBD II) Systems."

WHEREAS, emissions tests conducted at the Automotive Testing Development Services, Inc. (ATDS), Ontario, California, using a 1998 5.7L Chevrolet Tahoe equipped with dual parallel (2 units) exhaust system, and certified to the Low Emission Vehicle (LEV) emission standards and medium-duty vehicle 2 (MDV2) weight category, showed that the vehicle met the applicable emission standards with Series 31000 TWC (2 units) installed.

OBD II compatibility tests performed on the same test vehicle showed that Series 31000 TWC did not affect the vehicle's ability to perform OBD II system monitoring. Emission test results in grams per mile are shown below.

ATDS, Ontario, California				
1998 5.7L Chevrolet Tahoe (LEV/MDV2) Test				
	NMOG	CO	NOx	Remarks
120K Standard	0.230	6.4	0.6	
Test 1	0.174	2.4	0.3	Pass
Test 2	0.124	2.9	0.3	Pass

IT IS HEREBY RESOLVED that the above catalytic converter is exempt from the prohibitions in Vehicle Code Section 27156 for installation on the vehicles listed in Appendix D-353-17 subject to the following conditions:

1. No changes are permitted to the catalytic converter as described in the application for exemption. Any changes to the catalytic converter or any of its components, and other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.

2. Marketing of the catalytic converter using identifications other than those shown in the exemption application, and in this Executive Order, or marketing of the catalytic converter for application other than the ones shown in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of these products shall not be construed as an exemption to sell, offer for sale, or advertise any components of the catalytic converter as individual devices.

3. Any oral or written references to this Executive Order or its content by Miller Catalyzer Corporation, its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any emission reduction claims for the catalytic converter and is only a finding that the catalytic converter is exempt from the prohibitions of Vehicle Code Section 27156.

4. Miller Catalyzer Corporation's installation instructions for the new catalytic converter must conform to requirements in Paragraphs I and X of the "Optional Evaluation Procedures for New Aftermarket Non-original Equipment Catalytic Converters Equipped with On-Board Diagnostic II (OBD II) Systems."

5. Upon installation, the catalytic converter must carry a manufacturer's warranty for 50,000 miles on the substrates and 50,000 miles or five years on the shell and end pipes.

6. Miller Catalyzer Corporation and its vendors may not advertise the new aftermarket catalytic converter as a "high or easy flow" catalytic converter or use any phrase that could make it appear to perform better than an OEM catalytic converter.

7. The new aftermarket catalytic converter substrate may not be sold or supplied to a third party by Miller Catalyzer Corporation, its associates, vendors, other businesses, and individuals associated with Miller Catalyzer Corporation, to be assembled in a different facility and marketed under this Executive Order.

8. Any marketing arrangement of the new aftermarket catalytic converter by a third party, which involves the use of packaging identification different from the ones described in this Executive Order must be approved by Air Resources Board prior to shipment.

9. Miller Catalyzer Corporation must submit the required quality audit and production quantity reports for its aftermarket catalytic converter semi-annually, covering the periods January 1 through June 30, and July 1 through December 31.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after a ten day written notice of intention to revoke it, during which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request, and the order may not be revoked until a determination is made, after the hearing, that grounds for revocation exist.

Executed at El Monte, California, this 13th day of March 2007.

J. Lourenco

for Annette Hebert, Chief
Mobile Source Operations Division

Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW

No.	Model Year	Vehicle Model	Engine Size	EngineFamily	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
1	1996	Chevrolet/GMC 1500 2WD/4WD, Sierra	5.7L	TGM5.75PGFEK	Tier 1	MDV3	D	2	TWC	2	31000	31060
		Chevrolet/GMC 2500 2WD/4WD, Sierra	5.7L				D	2	TWC	2	31000	31060
		Chevrolet/GMC G2500 Van	5.7L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC Tahoe, Yukon	5.7L				D	2	TWC	2	31000	31060
2	1996	Chevrolet/GMC Pickup 2WD	5.7L	TGM5.76PGFEK	Tier 1	MDV3	D	2	TWC	2	31000	31060
		Chevrolet/GMC Suburban	5.7L				D	2	TWC	2	31000	31060
3	1996	C2500/2WD - Suburban, Pickup, Sierra	5.7L	TGM5.7JPG1EK	Tier 1	MDV3	D	2	TWC	2	31000	31060
		C3500/2WD - Pickup, Sierra	5.7L				D	2	TWC	2	31000	31060
		K2500/4WD - Suburban, Pickup, Sierra	5.7L				D	2	TWC	2	31000	31060
		K3500/4WD - Pickup, Sierra	5.7L				D	2	TWC	2	31000	31060
		G1500/G2500/2WD - Chevrolet Express, Savana, Chevrolet Van	5.7L				D	2	TWC	2	31000	31060
		G3500/2WD - Chevrolet Express, Savana, Chevrolet Van	5.7L				D	2	TWC	2	31000	31060
4	1996	Chev/GMC 2500 2WD/4WD	7.4L	TGM7.4J8G1EK	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chev/GMC 3500 2WD/4WD	7.4L				D	2	TWC	2	31000	31059B
		Chev/GMC 2500 Van	7.4L				D	2	TWC	2	31000	31059B
		Chev/GMC 3500 Van	7.4L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC Suburban	7.4L				D	2	TWC	2	31000	31059B
5	1997	Chevrolet/GMC C1500	5.7L	VGM5.7HPG1EK	Tier 1	MDV2	D	2	TWC	2	31000	31060B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31060B
6	1997	Chevrolet/GMC C2500/C3500	5.7L	VGM5.7JPG1EK	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500/K3500	5.7L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC G1500/G2500/G3500	5.7L				D	2	TWC	2	31000	31060B
7	1997	Chevrolet/GMC C1500/C2500	5.7L	VGM5.7JPG1GK	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC G1500/G2500 Van	5.7L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31060B
8	1997	Chevrolet/GMC C2500/C3500	7.4L	VGM7.4J8G1EK	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500/K3500	7.4L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC G3500 Van	7.4L				D	2	TWC	2	31000	31059B

Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW

No.	Model Year	Vehicle Model	Engine Size	EngineFamily	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
9	1998	Chevrolet/GMC C1500	5.7L	WGMXA05.7182	Tier 1	MDV2	D	2	TWC	2	31000	31086
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31086
10	1998	Chevrolet/GMC C2500	5.7L	WGMXA05.7184	Tier 1	MDV3	D	2	TWC	2	31000	31086
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31086
		Chevrolet/GMC G1500/G2500 Van	5.7L				D	2	TWC	2	31000	31086
11	1998	Chevrolet/GMC C1500	5.7L	WGMXA05.7185	LEV	MDV2	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31059B
12	1998	Chevrolet/GMC C1500	5.7L	WGMXA05.7186	LEV	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31059B
13	1998	Chevrolet/GMC C2500/C3500	7.4L	WGMXA07.4201	Tier 1	MDV3	D	2	TWC	2	31000	31086B
		Chevrolet/GMC K2500/K3500	7.4L				D	2	TWC	2	31000	31086B
		Chevrolet/GMC G3500 Van	7.4L				D	2	TWC	2	31000	31059B
14	1999	Chevrolet/GMC C1500	4.3L	XGMXA04.3190	Tier 1	MDV2	D	2	TWC	2	31000	31058B
		Chevrolet/GMC K1500	4.3L				D	2	TWC	2	31000	31058B
15	1999	Chevrolet/GMC C1500	4.3L	XGMXA04.3194	LEV	MDV2	D	2	TWC	2	31000	31058B
		Chevrolet/GMC K1500	4.3L				D	2	TWC	2	31000	31058B
16	1999	Chevrolet/GMC C1500	4.3L	XGMXA04.3195	Tier 1	MDV2	D	2	TWC	2	31000	31058B
		Chevrolet/GMC K1500	4.3L				D	2	TWC	2	31000	31058B
17	1999	Chevrolet/GMC C1500	4.8L	XGMXA04.8184	Tier 1	MDV2	D	2	TWC	2	31000	31074
		Chevrolet/GMC K1500	4.8L				D	2	TWC	2	31000	31074
18	1999	Chevrolet/GMC C1500	4.8L	YGMXA05.3183	LEV	MDV2	D	2	TWC	2	31000	31074
		Chevrolet/GMC K1500	4.8L				D	2	TWC	2	31000	31074
		Chevrolet/GMC C1500	5.3L				D	2	TWC	2	31000	31074
		Chevrolet/GMC K1500	5.3L				D	2	TWC	2	31000	31074
19	1999	Chevrolet/GMC Silverado, Sierra	5.3L	YGMXA05.3185	LEV	MDV2	D	2	TWC	2	31000	31074
20	1999	Chevrolet/GMC C1500	5.7L	XGMXA05.7182	Tier 1	MDV2	D	2	TWC	2	31000	31058B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31058B
21	1999	Chevrolet/GMC C1500	5.7L	XGMXA05.7185	LEV	MDV2	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31059B

Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	EngineFamily	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
22	1999	Chevrolet/GMC C1500	5.7L	XGMXA05.7186	LEV	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K1500	5.7L				D	2	TWC	2	31000	31059B
23	1999	Chevrolet/GMC C2500/C3500	5.7L	XGMXA05.7187	Tier 1	MDV3	D	2	TWC	2	31000	31060
		Chevrolet/GMC K2500/K3500	5.7L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC G1500/G2500/G3500	5.7L				D	2	TWC	2	31000	31059B
24	1999	Chevrolet/GMC C2500	6.0L	XGMXA06.0182	Tier 1	MDV3	D	2	TWC	2	31000	31059B
25	1999	Chevrolet/GMC C2500	6.0L	XGMXA06.0183	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500	6.0L				D	2	TWC	2	31000	31059B
26	1999	Chevrolet/GMC C2500/C3500	7.4L	XGMXA07.4201	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500/K3500	7.4L				D	2	TWC	2	31000	31059B
27	2000	Chevrolet/GMC 1500 Pickup	4.3L	YGMXA04.3190	LEV	MDV2	D	2	TWC	2	31000	31059B
28	2000	Chevrolet/GMC 1500 Pickup	4.3L	YGMXT04.3184	Tier 1	MDV2	D	2	TWC	2	31000	31059B
29	2000	Chevrolet/GMC C1500, K1500	4.8L	YGMXA05.3183	LEV	MDV2	D	2	TWC	2	31000	31074
		Chevrolet/GMC K1500, C1500, C2500	5.3L				D	2	TWC	2	31000	31074
30	2000	Chevrolet/GMC C1500	5.3L	YGMXA05.3184	LEV	MDV3	D	2	TWC	2	31000	31074
		Chevrolet/GMC K1500	5.3L				D	2	TWC	2	31000	31074
31	2000	Chevrolet/GMC C1500	5.3L	YGMXA05.7185	LEV	MDV2	D	2	TWC	2	31000	31074
		Chevrolet/GMC K1500	5.3L				D	2	TWC	2	31000	31074
		Chevrolet/GMC G1500/G2500	5.3L				D	2	TWC	2	31000	31074
32	2000	Chevrolet/GMC C2500/C3500	5.7L	YGMXA05.7191	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500/K3500	5.7L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC G1500/G2500/G3500	5.7L				D	2	TWC	2	31000	31059B
33	2000	Chevrolet/GMC C1500	5.7L	YGMXA05.7194	LEV	MDV2	D	2	TWC	2	31000	31060B
34	2000	Chevrolet/GMC G1500 Van	5.0L	YGMXT05.7188	Tier 1	MDV2	S	1	TWC	1	31000	31058B
		Chevrolet/GMC C1500	5.7L				D	2	TWC	2	31000	31058B
35	2000	Chevrolet/GMC G1500/G2500	5.0L	YGMXT05.7189	Tier 1	MDV3	S	1	TWC	1	31000	31060B
		Chevrolet/GMC Suburban K1500, C1500	5.7L				D	2	TWC	2	31000	31060B
		Chevrolet/GMC Yukon C1500	5.7L				D	2	TWC	2	31000	31060B
		Cadillac Escalade	5.7L				D	2	TWC	2	31000	31060B

Miller Catalyzer Corpoartion, Catalytic Converter Series 31000, GM Medium Duty Trucks, Up to 14,000 ALVW												
No.	Model Year	Vehicle Model	Engine Size	EngineFamily	Certification Level	Weight Class	Exhaust Type	Total Converters	Converter Type	Monitored	Universal	Direct Fit
36	2000	Chevrolet/GMC C2500	6.0L	YGMXT06.0192	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500	6.0L				D	2	TWC	2	31000	31059B
37	2000	Chevrolet/GMC C2500/C3500	7.4L	YGMXA07.4201	Tier 1	MDV3	D	2	TWC	2	31000	31059B
		Chevrolet/GMC K2500/K3500	7.4L				D	2	TWC	2	31000	31059B
		Chevrolet/GMC G3500	7.4L				D	2	TWC	2	31000	31059B
38	2001	Chevrolet C1500/K1500 Silverado	4.3L	1GMXA04.3190	LEV	MDV2	D	2	TWC	2	31000	31059B
		GMC C1500/K1500 Sierra	4.3L				D	2	TWC	2	31000	31059B
39	2001	Chevrolet C1500/K1500 Tahoe	4.8L	1GMXA05.3184	LEV	MDV3	D	2	TWC	2	31000	31074
		Chevrolet C1500/K1500 Tahoe	5.3L				D	2	TWC	2	31000	31074
		GMC C1500/K1500 Yukon	5.3L				D	2	TWC	2	31000	31074