

<u>Revision Date</u>	<u>Revision Page (*; New page)</u>	<u>Description of Revision</u>
12/15/12	None	

Application For Certification Part1

Individual application for 2013 Model Year

Durability Group : DNSXEEENN000
Evaporative / Refueling Family : NA
Test Group : DNSXV0000LLA
Test Group Description : BEV (Battery Electric Vehicle)
LDV (Fed) / PC (Cal)
Applicable Standard : Tier2 Bin1, CFV ZEV ILEV(Fed) / LEV-II ZEV(Cal)
Vehicles Covered : NISSAN LEAF (50 States)
Vehicles Run : KMB102-00 (UDDS TN:DNSX10022866)
: KMB102-00 (HWY TN:DNSX10022873)
Issue Date : October 22, 2012
Response Requested By : December 3, 2012
For Questions, Contact : Yukiyo Yamada Telephone No. 248-488-4654
EPA Test Pending Conditional Cert Requested

NISSAN MOTOR CO., LTD

Part1
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SEC5

5. Test Group Description

<u>Test Group Name</u>	<u>Fuel</u>	<u>Sales area</u>	<u>Vehicle Class</u>	<u>Emission St'd Class</u>
DNSXV0000LLA	Electricity	50 states	LDV (Fed) PC (Cal)	Tier2 Bin1, CFV ZEV ILEV(Fed) LEV-II ZEV(Cal)

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SEC6

6. Test Vehicle Description

Vehicle Class	Model Covered	Engine Code	Motor Model	Transmission	ETW (lbs)	GVWR (lbs)	Axle Ratio	Tire	
								Size	Maker
LDV (Fed) PC (Cal)	LEAF	EVAA2	EM57	Auto (Fixed single Speed)	3625	4193	8.193	P205/55R16	Bridgestone
		EVAA3						P215/50R17	MICHELIN
								P205/55R16	Bridgestone

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SEC7

7. Test Results

<u>Test Loc.</u>	<u>Test Number</u>	<u>Mode</u>	<u>Sales Area</u>	<u>Official Test (marked by X)</u>	<u>Certification Level</u>
Mfr	DNSX10022866	UDDS All-Electric Range Test	50 states	X	Refer to the Certification Summary Information Report
Mfr	DNSX10022873	Hwy All-Electric Range Test	50 states	X	

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Certification Summary Information Report

Manufacturer	Nissan Motor Co., Ltd.	Manufacturer Code	NSX
Test Group	DNSXV0000LLA	Evaporative/Refueling Family	N/A
Certificate Number	N/A	CARB Executive Order #	N/A
Certificate Issue Date	N/A	Certificate Revision Date	N/A
Certificate Effective Date	N/A	Conditional Certificate	--
CSI Revision #	N/A	CSI Submission/Revision Date	10/17/2012
Model Year	2013		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	N/A
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	DNSXEEEN000	Durability Group Equivalency Factor	5.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Compliance Indicator	No	SFTP Composite CO Option	--
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	DNSXV01.881A
Mfr Test Group Comments	Durability Group Equivalency Factor is not available because this vehicle is BEV.(5.0 is a dummy)		
Mfr Exhaust / Evap Standards Comments	--		

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Nissan Motor Co., Ltd.	1 - NISSAN	25 - LEAF	California + CAA Section 177 states	2-Wheel Drive, Front	Automatic	1	Yes
Nissan Motor Co., Ltd.	1 - NISSAN	25 - LEAF	Federal	2-Wheel Drive, Front	Automatic	1	Yes

Certification Summary Information Report

Test Group	DNSXV0000LLA				Evaporative/Refueling Family	N/A				
Engine Description										
Hybrid Type	--				Hybrid Description	--				
Engine Type	--				Mfr Engine Description	--				
Engine Block Arrangement	--				Mfr Engine Block Arrangement Description	--				
Camless Valvetrain Indicator	--				Oil Viscosity/Classification					
Number of Cylinders/Rotors	--									
After Treatment Device(s) (ATD)										
Mfr After Treatment Device (ATD) Comments	--									
Direct Ozone Reduction (DOR) Device										
Mfr Emission Control Device Comments	--									
Official Test Numbers										
Test Group	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	--	--	--	--	--	N/A	N/A	--	N/A	N/A
Hybrid Electric Vehicle And Fuel Cell Information										
Rechargeable Energy Storage System	Battery(s)				Rechargeable Energy Storage System, if Other	--				
Battery Type	Lithium Ion				Number of Battery Packs	1				
Total Voltage of Battery Packs	360				Battery Energy Capacity	66				
Battery Specific Energy	87.9				Battery Charger Type	On-Board				
Number of Capacitors	N/A									
Capacitor Rating (In Farads)	--				Mfr Capacitor Comments	--				
Hydraulic System Description										
Regenerative Braking Type	Electrical Regen Brake									
Regenerative Braking Source	Front Wheels				Driver Controlled Regenerative Braking	No				
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	1									
Motor/Generator Type 1	DC Permanent Magnet, brushless				Rated Motor/Generator Power	80				
Mfr Fuel Cell Description										
Fuel Cell On-Board H2 Storage Capacity (kg)	--				Usable H2 Fill Capacity (kg)	--				
Mfr Hybrid Electric/ Electric Vehicle Comments										

Certification Summary Information Report

Test Group	DNSXV0000LLA		Evaporative/Refueling Family	N/A							
Emission Data Vehicle Information											
Vehicle ID / Configuration	KMB102 / 0										
Vehicle Model											
Represented Test Vehicle Make	NISSAN		Represented Test Vehicle Model	NISSAN LEAF SL							
Drive Sources and Fuel System Details											
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>						Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel									
1	Electric Motor	Electricity									
Hybrid Indicator	N		Multiple Fuel Combustion	--							
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	Y							
Fuel Cell Indicator	N		Rechargeable Energy Storage System, if 'Other'	--							
Rechargeable Energy Storage System	Battery(s)		# of Transmission Gears	1							
Off-board charge Capable Indicator	Y		Axle Ratio	8.19							
Transmission Type	Auto(Fixed Single Speed)		Rated Horsepower	107							
Engine Code	EVAA2		Air Aspiration Method	Naturally Aspirated							
Displacement (liters)	99.999		SIL Usage	Not equipped							
Equivalent Test Weight (pounds)	3625										
Drive Mode While Testing	2-Wheel Drive, Front										
Aged Emission Components	4,000 (mi)										
Dynamometer Coefficients:											
Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)				
City/Highway/Evap	30.08	0.0713	0.02206	8.34	-0.0339	0.02115	11.8				
Manufacturer Test Vehicle Comments	Eco mode										

Certification Summary Information Report

Test Group	DNSXV0000LLA	Evaporative/Refueling Family	N/A
Test #	DNSX10022866	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	62 - Electricity
Test Date	09/13/2012	Fuel	N/A
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	NISSAN MOTOR CO., LTD.		

PHEV/EV TEST INFO

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.9198
Charge Depleting Range (Calculated miles)	133.212	Charge Depleting Range (Actual miles)	133.212
Equivalent All Electric Range	133.212		
Number of Charge Depleting Bags/Phases Conducted	1		

Charge Depleting Bag/Phase

Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
1	Actual Distance Driven (miles)	133.212
1	Average System Voltage	0
1	Carbon-Related Exhaust Emissions	0
1	Integrated Amp-hours	0
1	Manufacturer Fuel Economy	180.1744
1	System End State of Charge Watt-hours	0
1	System Start State of Charge Watt-hours	0

Manufacturer Test Comments

AC Energy(kWh/100mile):18.7069 Net Vehicle DC energy consumption [DC Wh/mile]:163

Certification Summary Information Report

Test Group	DNSXV0000LLA	Evaporative/Refueling Family	N/A
Test #	DNSX10022873	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	N/A	Test Fuel Type	62 - Electricity
Test Date	09/14/2012	Fuel	N/A
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	NISSAN MOTOR CO., LTD.		
PHEV/EV TEST INFO			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	24.9045
Charge Depleting Range (Calculated miles)	106.495	Charge Depleting Range (Actual miles)	106.495
Equivalent All Electric Range	106.495		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result
	1	Actual Distance Driven (miles)	106.495
	1	Average System Voltage	0
	1	Carbon-Related Exhaust Emissions	0
	1	Integrated Amp-hours	0
	1	Manufacturer Fuel Economy	144.1271
	1	System End State of Charge Watt-hours	0
	1	System Start State of Charge Watt-hours	0
Manufacturer Test Comments	AC Energy(kWh/100mile):23.3856 Net Vehicle DC energy consumption [DC Wh/mile]:204		

Certification Summary Information Report

Test Group		DNSXV0000LLA			Evaporative/Refueling Family			N/A		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV		
Fuel		Electricity			Test Procedure			California fuel 3-day exhaust		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CO	--	--	--	--	--	--	--	0.0	
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.00	0.0	
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 2 Bin 1		
Fuel		Electricity			Test Procedure			California fuel 3-day exhaust		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
120,000 miles	CO	--	--	--	--	--	--	--	0.0	
120,000 miles	OPT-CREE	--	--	--	--	--	--	0.00	0.0	

Certification Summary Information Report

Test Group	DNSXV0000LLA	Evaporative/Refueling Family	N/A
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	FE BAG 2	Bag 2 Fuel Economy
CO	Carbon Monoxide	FE BAG 3	Bag 3 Fuel Economy
CO2	Carbon dioxide	FE BAG 4	Bag 4 Fuel Economy
CREE	Carbon-Related Exhaust Emissions	MFR FE	Manufacturer Fuel Economy
OPT-CREE	Optional Carbon-Related Exhaust Emissions	HC	Hydrocarbon for Running Loss and ORVR
NOX	Nitrogen Oxide	METHANE	CH4 - Methane
PM	Particulate Matter	METHANOL	CH3OH - Methanol
PM-COMP	SFTP Composite Particulate Matter	N2O	Nitrous Oxide
HC-NM	Non-methane Hydrocarbon	SPITBACK	Spitback Hydrocarbon in grams
OMHCE	Organic material Hydrocarbon Equivalent	AMP-HRS	Integrated Amp-hours
OMNMHCE	Organic material non-methane HC equivalent	START-SOC	System Start State of Charge Watt-hours
NMOG	Non-methane organic gas (California)	END-SOC	System End State of Charge Watt-hours
HCHO	Formaldehyde	ACT-DISTANCE	Actual Distance Driven (miles)
H3C2HO	Acetaldehyde	AS-VOLT	Average System Voltage
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO2 BAG 1	Bag 1 Carbon Dioxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO2 BAG 2	Bag 2 Carbon Dioxide
CO-COMP	SFTP Composite Carbon Monoxide	CO2 BAG 3	Bag 3 Carbon Dioxide
ETHANOL	C2H5OH - Ethanol	CO2 BAG 4	Bag 4 Carbon Dioxide
FE BAG 1	Bag 1 Fuel Economy		
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)
B2	Federal Tier 2 Bin 2	HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)
B3	Federal Tier 2 Bin 3	L2	California LEV-II LEV
B4	Federal Tier 2 Bin 4	L2OP	California LEV-II LEV Optional
B5	Federal Tier 2 Bin 5	U2	California LEV-II ULEV
B6	Federal Tier 2 Bin 6	S2	California LEV-II SULEV
B7	Federal Tier 2 Bin 7	ZEV	California ZEV
B8	Federal Tier 2 Bin 8	OT	Other
B9	Federal Tier 2 Bin 9	T1	Federal Tier 1
B10	Federal Tier 2 Bin 10	PZEV	California PZEV
B11	Federal Tier 2 Bin 11		

Certification Summary Information Report

Test Group	DNSXV0000LLA	Evaporative/Refueling Family		N/A
Transmission Type Code				
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual	
A	Automatic	OT	Other	
AM	Automated Manual	SA	Semi-Automatic	
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
Additional Terms and Acronyms				
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer	
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor	SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative	Trans	Transmission	

SEC9,10

9. OBD System Description

Refer to the confidential section. Sec 16 (1)

10. Description of Alternate-fueled Vehicles

Refer to the confidential section. Sec 16 (10)

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SEC11(2)

11. AECD Description

(2) General Relation between Sensed Parameters and Controlled Parameters

Refer to the confidential section. Sec 16 (11)

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12. Description of Vehicles Covered by Certificate and Test Parameter

(3) List of Certified Vehicles

Durability Group : DNSXEEEN000
 Test Group : DNSXV0000LLA

[Vehicle Identification]

Carline	Trim Line	Trans./OD	Engine Code	Fuel	ETW (lbs)	Sales Area	SIL	Battery Capacity (kWh)	Vehicle Class
LEAF	S	Auto (Fixed single Speed)	EVAA2 EVAA3 EVAA2	Electricity	3625	50S	N.A.	24	LDV (Fed) PC (Cal)
	SL SV								

[Propulsion system]

-Motor							-Traction Inverter	
Model	Type	Rated Power (kW)	Rated Torque (Nm)	Maximum Speed (rpm)	Number of Motor per vehicle	Drive type	Type	Modulation
EM57	DCPM	80 @3008-10000rpm	254 @0-3008rpm	10500	1	2-wheel Drive, front	DC/AC 3phase	PWM

-Battery
 Refer to the confidential section. Sec16(12)-1

-Regenerative Braking		
Type	Braking Source	Driver controlled Regen Braking
Electrical Regen. Brake	Front Wheels	None

-Standard Charger (Level 1)	
Type	Input Voltage (V)
Conductive On-board	120-240V (<30A, AC50/60Hz) (EVAA2) 120-240V (<18A, AC50/60Hz) (EVAA3)

[Other system]

-Climate control system
 The climate control system equipped with electric motor-driven compressor/ Heat-Pump(SV,SL) + Air PTC heater system
 The system uses HFC134a refrigerant and operates on 12volts DC/ 345 volts AC.
 The vehicle are also equipped with a "pre-conditioning" system that turns on air conditioning system before passengers enter the car.
 The vehicle is not equipped with a fuel-fired heating system.

12. Description of Vehicles Covered by Certificate and Test Parameter

(4) Test Parameter

Durability Group : DNSXEEENN000
 Test Group : DNSXV0000LLA

Carline	Trim Line	Trans.	ETW (lbs)	Tire		Axle Ratio	N/V Ratio	TRLHP	Coastdown Time (sec.)	Single Roll Dyno Terms			Shift Schedule ID			Cooling Fan Config	Special Test Proc
				Size	Maker					A	B	C	City	Hwy	FTTP		
LEAF	S	Auto	3625	P205/55R16	Bridgestone	8.193	114.7	11.8	18.97	29.97	0.0713	0.02206	FTA	HWA	N.A.	*1	*2, *3
	SL	(Fixed single Speed)	3625	P215/50R17	MICHELIN	8.193	112.5	11.8	19.08	29.61	0.0738	0.02195	FTA	HWA		*1	*2, *3
	SV		3625	P205/55R16	Bridgestone	8.193	114.7	11.8	18.95	30.08	0.0713	0.02206	FTA	HWA		*1	*2, *3

*1: One centered front fan, in down position.

*2: Set in maintenance mode. Refer to SEC12(1)

*3: If EV system starts, "READY" lamp in the meter illuminate, push the VDC CANCEL SWITCH within 10 seconds always.

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12. Description of Vehicles Covered by Certificate and Test Parameter

(4) Test Parameter

Testing Related Information

-Charging procedure

- 1) Push the start button twice without brake pedal on to weak up the vehicle system
- 2) Move the shift lever to the "P" position.
- 3) Push the start button once to shut off the vehicle system.
- 4) To open the charge port access door, push the release switch.
- 5) Remove the charge connector from holster. All of the indicator display lamps come on and then go off.
- 6) Fully insert the charge connector into the charge port. When the charge connector is set correctly, vehicle answer one beep.
- 7) Charging begins automatically. The "CHG" indicator display comes on.
- 8) When the batteries are fully charged; the indicator display SOC meter lamps all come on and the "CHG" lamp goes off.
- 9) Remove the charge coupler from the charge port. Make sure to firmly secure the charge coupler in its holster.
- 10) Close the charge port access door on vehicle.

-Load setting for dyno procedure

- 1) With no depressing the brake pedal, push the "START" switch twice. The vehicle is set in "IGN-ON" condition, not "Ready" condition.
- 2) Shift into "N" position with depressing the brake.
- 3) Start the Load Set
- 4) When the load set is finished, push the "START" switch once to shut off vehicle system

-Safe handling of battery system Information

When working on high voltage cable, wear antistatic boots and insulated gloves. And remove the Shut Down switch.

If high voltage battery is damaged, there is a risk of short circuit to vehicle body due to leakage of electrolyte, and it is necessary to beware of electric shock.

When damaged, the battery may emit white fumes (vaporized electrolyte) due to short circuit.

- > If this happens, cool the battery with hose streams.
- > Since electrolyte is flammable, fire sources are prohibited.
- > Electrolyte liquid and vapor are not toxic, but must not be directly inhaled in large quantities.

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12. Description of Vehicles Covered by Certificate and Test Parameter

(4) Test Parameter

Testing Related Information

-System Warning Device Information




This EV has 3 indicating devices for warnings specific to EV.

"FAIL" as warning device for the existence of a vehicle malfunction, and the impossibility of vehicle running .

"CAUTION" as warning device for the existence of a vehicle malfunction and the possibility of vehicle running .

"FAIL" and "CAUTION" are same indicator behavior. The difference is run or not.

"SLOW DOWN" which is marked with the figure of TURTLE as warning device for the lowering of acceleration performance.

TYPE		FAIL	CAUTION	SLOW DOWN
Symbol				
	Traveling	IMPOSSIBLE	POSSIBLE	POSSIBLE
	Repair	Required	Required	Not-required
	Acceleration performance	Impossible to run	Depend upon condition	SLOW DOWN
	User's responsibility	Repair	Repair	Changing or Cooling the Vehicle

-Emergency procedures

When an accident happens:

- > Stop the car to the safe place.
- > Turn key off
- > Rescue injured persons if there any.
- > Please call emergency (911).
- > Please call the LEAF customer support center of Nissan.

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14. Request for Certification

Request for Certificate to ARB

Test Group : DNSXV0000LLA
Exhaust emission control system number : 1 of 1
Evaporative/Refueling Family : N.A.
Carline : LEAF

Nissan Motor Co., Ltd requests that ARB issue a 2013 model year certificate of conformity for the above specified test group and evaporative/refueling family combination more fully described in this application. This combination complies with the following applicable emission standard:

Federal : X
California & 177 States : X

This combination complies with all applicable regulations contained within 40 CFR Part86, the application is current as of this date.
The exhaust and evaporative/refueling emission test results support this request for certificate.



Kazuhiro Murata
Manager
Global Government Affairs Dept.-
Environmental and Safety
Technologies

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14. Request for Certification

Request for Certificate to EPA

Test Group : DNSXV0000LLA
Exhaust emission control system number : 1 of 1
Evaporative/Refueling Family : N.A.
Carline : LEAF

Nissan Motor Co., Ltd requests that EPA issue a 2013 model year certificate of conformity for the above specified test group and evaporative/refueling family combination more fully described in this application. This combination complies with the following applicable emission standard:

Federal : X
California & 177 States : X

This combination complies with all applicable regulations contained within 40 CFR Part86, the application is current as of this date.
The exhaust and evaporative/refueling emission test results support this request for certificate.



Kazuhiro Murata
Manager
Global Government Affairs Dept.-
Environmental and Safety
Technologies

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SEC15(1)

15. Other Information

(1) Fee Filing Form

Refer to the attached Fee Filing Form

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**U.S. ENVIRONMENTAL PROTECTION AGENCY
MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM
ON-HIGHWAY FEE FILING FORM**

FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2012

Manufacturer Name **NISSAN MOTOR CO., LTD**

Address **560-2, Okatsukoku**

City/State/Zip Code/Country **Atsugi - city / Kanagawa - pre. / 243-0192 / Japan**

On-Highway Certification Request Type (check one)

- | | |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <input checked="" type="checkbox"/> LDV/LDT/MDPV/HDV (Chassis cert) FEDERAL (\$32,678) | <input type="checkbox"/> HDV EVAP-ONLY (\$511) |
| <input type="checkbox"/> LDV/LDT/MDPV/HDV (Chassis cert) CAL-ONLY (\$16,899) | <input type="checkbox"/> HDE CALIF-ONLY (\$511) |
| <input type="checkbox"/> HDE (Engine Dyno cert) FEDERAL (\$42,506) | <input type="checkbox"/> MOTORCYCLE (\$1,210) |
| | <input type="checkbox"/> LD/MDPV/HDV ICI (\$53,639) |

EPA standard family or test group name:

D	N	S	X	V	0	0	0	0	L	L	A
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Amount paid (U.S. Funds Only):

\$ **32,678.00**

Enter the check number, or the statement "WIRE" or "ACH":

WIRE

Reduced Fee Section (40 CFR §1027.120)

Reduced fee calculation (minimum initial payment \$750): Total number of vehicles/units covered: _____

Aggregate retail sales price of the vehicles/units: \$ _____ x 1% = \$ _____

Check box if an Independent Commercial Importer: List the VIN of imported vehicles/engines below:

Company Representative: **Kazuhiro Murata**

Signature: *Kazuhiro Murata*

Title: **Manager**

Phone/Fax: **+81-46-270-1257 / +81-46-282-8830**

Date: **01 / 13 / 2012**

E-mail Address: **k-murata@mail.nissan.co.jp**

Submission of payments and forms:

- (1) Online: **Forms** may be found and submitted with or without **payments** online at www.Pay.gov.
- (2) By mail: For check payments only, send **checks** and this **form** to:

**Environmental Protection Agency
Motor Vehicle and Engine Compliance Program
P.O. Box 979032
St. Louis, MO 63197-9000**

- (3) Transmit offline **Wire payments** to the New York Federal Reserve Bank. (See Instructions, p.2)
- (4) Transmit offline **ACH payments** to the Federal Reserve Bank of Cleveland. (Instructions, p.2)
- (5) **Forms** not submitted under (1) and (2) above can be sent as email attachments to Fees@epa.gov. Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

Application For Certification Part2

Individual application for 2013 Model Year

Durability Group : DNSXEEENN000
Evaporative / Refueling Family : NA
Test Group : DNSXV0000LLA
Test Group Description : BEV (Battery Electric Vehicle)
LDV (Fed) / PC (Cal)
Applicable Standard : Tier2 Bin1, CFV ZEV ILEV(Fed) / LEV-II ZEV(Cal)
Vehicles Covered : NISSAN LEAF (50 States)
Issue Date : December 14, 2012
For Questions, Contact : Yukiyo Yamada Telephone No. 248-488-4654

NISSAN MOTOR CO., LTD

Part2
TABLE OF CONTENTS

Section	Title	Application	
		General	Individual
1	Part Number		X
2	Calibration Information		X
3	Detailed Description of Vehicles Covered by Certificate and Test Parameter		
	(1) Updated List of Certified Vehicles		X
	(2) Updated Test Parameter		X
	(3) Basic Information about Engine Code		X
4	Final US Sales	X	
5	Service Manuals, Service bulletins	X	
6	Confidential Information		
	(1) Block Diagram of the Input Parameters	X	
7	California ARB Information		
	(1)-1. MIL Display		X
	(1)-2. Fuel Cap Indicator Display		X
	(2)-1. Long-Term Emission System Defect Warranty Parts List		X
	(2)-2. High-Cost Warranty Parts List		X

SEC1

1. Part numbers for LEAF

Engine Code	Vehicle Controller	Motor Controller	Charger Controller	Battery Controller	Main Battery
EVAA2	DEV00-002	291A0 3NF??	292C0 3NF2?, 292C0 3NF3?	293A0 3NF0, 293A0 3NL1	295B0 3NF0, 295B0 3NF1
EVAA3			292C0 3NF0?, 292C0 3NF1?		

* The parts with plural establishment have the same calibration and performance, even though the parts manufactures are different.

** The figures and numbers in the place of the mark ? are variable according to lot number and production date.

DNSXV0000LLA

Issue Date : Refer to cover page

Revision Date :

2. Calibration Information (for LEAF)

All electric operations are controlled by electric control module.
Calibration is identified parts number.

DNSXV0000LLA

Issue Date : Refer to cover page

Revision Date :

SEC3

3. Detailed Description of Vehicles Covered by Certificate and Test Parameter

(1) Updated List of Certified Vehicles

Refer to the Individual application, Sec. 12 in Part1

(2) Updated Test Parameter

Refer to the Individual application, Sec. 12 in Part1

(3) Basic Information about Engine Code

Model Name	Engine Code	Motor		Battery	
		Model	Controller	Type	Measured amount of discharged energy(1/3c)(kWh)
LEAF	EVAA2 EVAA3	EM57	291A0 3NF??	Lithium Ion	24

* The parts with plural establishment have the same calibration and performance, even though the parts manufactures are different.

** The figures and numbers in the place of the mark ? are variable according to lot number and production date.

DNSXV0000LLA

Issue Date : Refer to cover page

Revision Date :