

The logo for Nevada DOT is rendered in a bold, blue, sans-serif font with a 3D effect. The word "NEVADA" is positioned above "DOT". The letter "V" in "NEVADA" is stylized, with its right side forming a downward-pointing arrow. A thick blue horizontal bar is located below the "DOT" text, ending in a rightward-pointing arrowhead.

**NEVADA
DOT**



NDOT FLEET REPLACEMENT

- FY 2017 Request





Request Transportation Board Approval to replace fleet vehicles

NRS 408.389 states that the Department shall not purchase any equipment which exceeds \$50,000, unless the purchase is first approved by the Transportation Board.

The total purchase of these vehicles is \$5,000,000 for FY 2017.



Approved Biennial Legislative Budget

NEVADA DEPARTMENT OF TRANSPORTATION
 BUDGET ACCOUNT 201-4660
 BUDGET REQUEST FISCAL YEARS 2015-2016 AND 2016-2017
 ENHANCEMENT

AGENCY REQUEST
 AUGUST 21, 2014

NDOT OBJECT	OBJECT TITLE DESCRIPTION / JUSTIFICATION / DOCUMENTATION OF NEED	2016 REQUEST	2017 REQUEST
E710	EQUIPMENT REPLACEMENT		
REVENUE - CATEGORY 00			
00-2507	Highway Fund Authorization	\$ 5,420,000	\$ 5,420,000
TOTAL REVENUE E710 - CATEGORY 00		\$ 5,420,000	\$ 5,420,000
EQUIPMENT - CATEGORY 05			
05-8000	COMMUNICATIONS EQUIPMENT - 800 MHZ RADIOS	\$ 420,000	\$ 420,000
<p>This decision unit requests budget authority for the replacement of approximately ten percent (10%) of the 800 MHz radios owned and utilized by the Department of Transportation (NDOT). The type of radios to be replaced reached their end of service for parts support in 2009 and 2010. 200 radios x \$4,200 estimated replacement cost per unit = \$840,000 (see attached list of NDOT radios to be replaced). The replacement radios are compatible with any P25 radio system and are vendor neutral.</p> <p>The Nevada Shared Radio System (NSRS) is a statewide 800 MHz trunked radio system. The NSRS is a public private partnership shared between the NDOT, the University of Nevada Las Vegas (UNLV), and Nevada Energy participating in full legal accordance with FCC regulations. System resources and components are combined to maximize mobile radio capabilities, advanced technologies and coverage throughout Nevada, while minimizing equipment costs and associated operational costs. A portion of the NDOT operating costs are reimbursed by the non-highway funded agencies listed on the attached diagram depicting the participants in the NSRS.</p> <p>Although the backbone (mountain top) radio system has reached its end of life and will no longer be supported by the manufacture, the end user equipment is supported and needs to be replaced as described above. The replacement radios will work on any P25 radio system that is chosen as the replacement, regardless of the manufacturer.</p>			
05-8280	HEAVY DUTY REPLACEMENT EQUIPMENT	\$ 5,000,000	\$ 5,000,000
ENHANCEMENT - REPLACEMENT EQUIPMENT TOTAL - E710		\$ 5,420,000	\$ 5,420,000

Attachment A





NDOT VEHICLE CLASSIFICATIONS

- NDOT has 80 classes of equipment within the fleet.
- Some examples for this request:



Equipment Replacement Criteria

Attachment B

EQUIPMENT REPLACEMENT CRITERIA BY VEHICLE CLASS

Criteria for NDOT licensed equipment replacement are based upon number of miles or hours, age, and/or downtime, excessive repair/recapitalization cost and parts availability.

Mileage, hour and age criteria for replacement are as follows:

<u>Class</u>	<u>Description</u>	<u>Miles/Hours</u>	<u>Months</u>
01	Sedans	100,000	96
	Purchased after FY03	120,000	120
01A	AWD Passenger Vehicles	100,000	96
	Purchased after FY03	150,000	120
03	3/4 Ton Pickups	150,000	96
	Diesel Powered	200,000	144
04	Vans	150,000	96
	Diesel Powered	200,000	144
05	1/2 Ton Pickups	150,000	96
08A	Fork Lifts		180
08E	Air Compressors		180
10	Survey Units	150,000	96
10	Diesel Powered	200,000	144
11	Misc. Trucks	150,000	96
	Diesel Powered	200,000	144
11A	Aerial Lifts	150,000	96
	Diesel Powered	200,000	144
11E	1 Ton Dump/Garbage Trucks	150,000	96
	Diesel Powered	200,000	144
11F	Service Trucks	150,000	96
	Diesel Powered	200,000	144
11H	Flatrack	150,000	96
	Diesel Powered	200,000	144
11J	Utility Truck	150,000	96
	Diesel Powered	200,000	144
13	Tandem Axle Dump Trucks	200,000	144
	Purchased after FY03	250,000	180
15	All Wheel Drive Dump Trucks	200,000, or 5,000 hrs	180
21	S P Road Brooms	8,000	120
24	S P Pickup Brooms		72
37	Conveyors		360
40	Patch/Crack Fillers		120
54	Industrial Tractors		240
54B	Backhoe Loader		240
60	Trailers - Cargo		204
63	Sign Trailers		360
63B	Programmable Message Boards		144
72	Lab/Office Trailers		240



CLASS 1

Sedan



CLASS 3

¾ Ton PU





CLASS 4

Van



CLASS 5

½ ton PU





CLASS 8A





CLASS 10/11

Medium Duty Trucks



CLASS 11A

Aerial Lift Truck





CLASS 13

Tandem Axle Dump Trucks



CLASS 15

All Wheel Drive Dump Trucks





CLASS 21

Self Propelled Broom



CLASS 24

Street Sweeper





CLASS 37

Stacker Belt



CLASS 40

Trailer





CLASS 54

Tractor



Attachments



CLASS 54B

Backhoe





CLASS 63B

Programmable
Message Board



CLASS 72

Lab Trailer





Proposed List of Vehicles

Attachment C

ATTACHMENT 3

DISTRICT I

FY 2017 Equipment Replacement

CLASS	Unit No	Current Age (Years)	Fuel Type	ODOMETER as of 6/30/16	UNIT AVG YR MNT COST Dec 2012 THRU Dec 2015	CLASS AVG YEARLY MAINT COST	DESCRIPTION REQUEST	ADJ CLASS	EST. COST	REPLACEMENT CRITERIA MET
04	3178	13	CNG	33,204	\$2,722.53	\$2,445	15 Ppassenger Van	04	\$32,000	Age
05	0461	15	Pro/Unld	232,963	\$7,297.16	\$1,977	1/2Ton Extended Cab Short Bed	05	\$27,000	Age/Mileage
13	0819	32	Diesel	224,342	\$9,924.37	\$7,595	Tandem Axle Dump Truck w/ Plow & Sander	13	\$250,000	Age/Mileage
13	0851	21	Diesel	184,537	\$3,843.13	\$7,595	Tandem Axle Dump Truck w/ Plow & Sander	13	\$250,000	Age
15	1009	32	Diesel	79,171	\$7,175.02	\$16,113	Tandem Axle Dump Truck w/ Plow & Sander	13	\$250,000	Age
21	1543	24	Diesel	2,654	\$3,495.61	\$4,304	Self Propelled Broom	21	\$50,000	Age
24	1827	29	Diesel	17,790	\$2,424.60	\$14,987	PM-10 Self Propelled Sweeper	24	\$275,000	Age
54B	2039	33	Diesel	4,493	\$5,897.18	\$3,420	Backhoe	54B	\$100,000	Age
05	0845	14	Pro/Unld				4 Door SUV	01A	To be ordered if savings permits	Age/Mileage



Proposed List of Vehicles

Attachment C - Continued

ATTACHMENT 3
DISTRICT II
FY 2017 Equipment Replacement

CLASS	Unit No	Current Age (Years)	Fuel Type	ODOMETER as of 6/30/16	UNIT AVG YR MNT COST Dec 2012 THRU Dec 2015	CLASS AVG YEARLY MAINT COST	DESCRIPTION REQUEST	ADJ CLASS	EST. COST	REPLACEMENT CRITERIA MET
01	3092	17	Unld	90,600	\$726.22	\$1,647	Ford Explorer 4x4	01A	\$30,000	Age
03	0090	11	Dsl	312,635	\$6,954.51	\$3,138	3/4 Ton 4x4 Pickup Crew Cab Short Bed	03	\$32,500	Mileage
03	1155	13	Unld	282,463	\$2,837.62	\$3,138	3/4 Ton 4x4 Pickup Crew Cab Short Bed	03	\$32,500	Age/Mileage
03	1750	12	Dsl	201,503	\$10,197.14	\$3,138	3/4 Ton 4x4 Pickup Crew Cab Short Bed	03	\$32,500	Mileage
03	3226	12	Dsl	348,266	\$4,112.36	\$3,138	3/4 Ton 4x4 Pickup Crew Cab Short Bed	03	\$32,500	Mileage
05	0129	11	Unld	276,952	\$2,446.41	\$1,977	1/2 Ton 4x4 Pickup Ext Cab FFV V-6 Short Bed	05	\$28,000	Mileage
05	0159	11	Unld	281,741	\$2,695.82	\$1,977	1/2 Ton 4x4 Pickup Ext Cab FFV V-6 Short Bed	05	\$28,000	Mileage
05	0389	21	Unld	155,977	\$1,318.91	\$1,977	1/2 Ton 4x4 Pickup Crew Cab FFV V-6 Short Bed	05	\$28,000	Age/Mileage
05	0834	15	Unld	314,528	\$2,867.68	\$1,977	1/2 Ton 4x4 Pickup Crew Cab FFV V-6 Short Bed	05	\$28,000	Age/Mileage
03	1141	13	Dsl	256,748	\$4,249.50	\$3,138	1/2 Ton 4x4 Pickup Crew Cab FFV V-6 Short Bed	05	\$28,000	Age/Mileage
13	0512	24	Dsl	191,319	\$4,026.31	\$7,595	Tandem Axle Dump Trk W/Plow & Sander	13	\$250,000	Age
13	2782	18	Dsl	204,283	\$16,010.62	\$7,595	Tandem Axle Dump Trk W/Plow & Sander	13	\$290,000	Age/Mileage
15	2789	18	Dsl	179,277	\$22,450.44	\$16,113	6x6 Plow Truck One Way Plow & Sander	15	\$260,000	Age
54	1340	23	Dsl	2,296	\$10,339.05	\$6,312	AG Tractor w/ Boom Mower and Batwing Mower	54	\$150,000	Age



Proposed List of Vehicles

Attachment C - Continued

ATTACHMENT 3
DISTRICT III
FY 2017 Equipment Replacement

CLASS	Unit No	Current Age (Years)	Fuel Type	ODOMETER as of 6/30/16	UNIT AVG YR MNT COST Dec 2012 THRU Dec 2015	CLASS AVG YEARLY MAINT COST	DESCRIPTION REQUEST	ADJ CLASS	EST. COST	REPLACEMENT CRITERIA MET
03	0828	14	Unleaded	219,576	\$1,074.31	\$3,138	3/4 Ton Standard Cab Long Bed 4x4	03	\$27,000	Age/Mileage
03	1146	13	Unleaded	187,388	\$2,494.23	\$3,138	3/4 Ton Standard Cab Long Bed 4x4	03	\$27,000	Age/Mileage
03	2169	11	Unleaded	154,094	\$2,043.84	\$3,138	3/4 Ton Crew Cab Short Bed 4x4	03	\$31,000	Age/Mileage
05	0262	25	Unleaded	159,645	\$3,252.37	\$1,977	3/4 Ton Crew Cab Short Bed 4X4	03	\$31,000	Age/Mileage
03	0161	11	Unleaded	19,849	\$2,159.08	\$3,138	3/4 Ton ext Cab 4x4	03	\$29,000	Age/Mileage
03	0815	14	Diesel	272,593	\$9,898.85	\$3,138	3/4 Ton ext Cab 4x4	03	\$29,000	Age/Mileage
08A	0670	23	Propane	532	\$0.00	\$1,024	Forklift 6,000 lb	08A	\$35,000	Age
11A	3216	13	Diesel	184,520	\$9,696.99	\$4,369	F-550 w/Aerial Lift	11A	\$115,000	Age/Mileage
11E	2988	17	Diesel	274,271	\$6,850.26	\$8,941	F-450 Dump Truck Gas Engine	11E	\$48,000	Age/Mileage
11F	1873	11	Diesel	312,708	\$9,092.93	\$5,781	F-450 Mechanic's Truck 4x4	11F	\$48,000	Mileage
11H	2992	17	Diesel	240,072	\$11,725.06	\$5,558	F-450 Flat Rack Truck 4x4	11H	\$40,000	Age/Mileage
11J	0191	16	Diesel	213,931	\$4,498.21	\$5,418	F-450 Reg Cab Utility Body	11J	\$50,000	Age/Mileage
11J	0552	15	Diesel	208,061	\$4,519.56	\$5,418	F-450 Mechanic's Truck	11F	\$40,000	Age/Mileage
13	0229	16	Diesel	269,508	\$14,694.79	\$7,595	Tandem Axle Dump Trk W/Plow & Sander	13	\$250,000	Age/Mileage
13	3021	17	Diesel	248,928	\$13,059.14	\$7,595	Tandem Axle Dump Trk W/Plow & Sander	13	\$250,000	Age/Mileage
37	1072	41	Unleaded	15	\$6,526.18	\$2,343	Stacker Belt 30" x 60" Diesel Powered	37	\$100,000	Age
40	0937	29	Diesel	0	\$170.87	\$3,056	Trailer Mounted Patcher	40	\$70,800	Age
63B	2881	19	Solar	569	\$1,161.74	\$824	Programmable Message Board	63B	\$23,500	Age
21	1056	23	Diesel				Self Propelled Broom	21	To be ordered if savings permits	Age



Proposed List of Vehicles

Attachment C - Continued

ATTACHMENT 3
Headquarters & Construction
FY 2017 Equipment Replacement

CLASS	Unit No	Current Age (Years)	Fuel Type	ODOMETER as of 6/30/16	UNIT AVG YR MNT COST Dec 2012 THRU Dec 2015	CLASS AVG YEARLY MAINT COST	DESCRIPTION REQUEST	ADJ CLASS	EST. COST	REPLACEMENT CRITERIA MET
01	2924	17	Unleaded	123,079	\$411.18	\$1,647	1/2 Ton 4x4 Pickup Ext Cab LB FFV V-6	05	\$27,000	Age/Mileage
10	3155	16	Unleaded	168,262	\$5,447.78	\$5,422	3/4 ton 4x4 Ext Cab Short Bed	03	\$30,000	Age/Mileage
04	0100	11	Diesel	258,093	\$8,954.23	\$2,445	3/4 on Cargo Van 4X4	04	\$36,000	Mileage
04	1015	18	Unleaded	172,854	\$1,843.45	\$2,445	1/2 Ton 4x4 Pickup Ext Cab SB FFV V-6	05	\$27,000	Age/Mileage
01	0021	16	Unleaded	143,453	\$549.32	\$1,647	1/2 Ton 4x4 Pickup Crew Cab SB FFV V-6	05	\$30,000	Age/Mileage
05	0347	23	Unleaded	163,470	\$2,908.77	\$1,977	1/2 Ton 4x4 Pickup Ext Cab SB FFV V-6	05	\$27,000	Age/Mileage
05	0504	9	Unleaded	148,148	\$2,303.43	\$1,977	1/2 Ton 4x4 Pickup Ext Cab LB FFV V-6	05	\$27,000	Age
05	0575	15	Unleaded	145,263	\$3,251.67	\$1,977	1/2 Ton 4x4 Pickup Ext Cab SB FFV V-6	05	\$27,000	Age
08E	2207	28	Diesel	0	\$134.68	\$670	1/2 Ton 4x4 Pickup Ext Cab SB FFV V-6	05	\$27,000	Age
05	2525	21	Unleaded	171,765	\$4,871.42	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	2555	21	Unleaded	179,892	\$1,788.72	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	1438	21	Unleaded	162,737	\$1,677.36	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	0210	25	Unleaded	156,613	\$729.53	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	2563	21	Unleaded	160,440	\$4,539.12	\$1,977	1/2 Ton Reg Cab Long Bed	05	\$22,000	Age/Mileage
05	0144	11	Unleaded	175,185	\$5,411.79	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	0474	15	Unleaded	183,060	\$1,763.81	\$1,977	1/2 Ton Reg Cab Long Bed	05	\$22,000	Age/Mileage
05	1798	12	Unleaded	162,221	\$1,307.85	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	1804	12	Unleaded	173,023	\$1,837.44	\$1,977	1/2 Ton Reg Cab Long Bed	05	\$22,000	Age/Mileage
05	2061	21	Unleaded	171,291	\$2,689.52	\$1,977	1/2 Ton Reg Cab Short Bed	05	\$22,000	Age/Mileage
05	0480	15	Unleaded	167,829	\$998.40	\$1,977	1/2 Ton Reg Cab Long Bed	05	\$22,000	Age/Mileage
72	2366	28	N/A	0	\$29.39	\$172	10 x 50 Lab Trailer	72	\$172,000	Age
72	2472	27	N/A	0	\$123.33	\$172	10 x 50 Lab Trailer	72	\$172,000	Age
72	2205	29	N/A	0	\$107.11	\$172	10 x 50 Lab Trailer	72	\$172,000	Age
63	2070	30	N/A	0	\$0.00	\$58	Communications Trailer	60C	\$58,000	Age
63	2381	27	N/A	0	\$0.00	\$58	Communications Trailer	60C	\$58,000	Age



Cost and Benefits Analysis

Attachment D - for the following Classes

- **Class 11 and 11A One Ton Truck**
- **Class 13 Dump Truck**
- **Class 15 AWD Dump Truck**
- **Class 21 Sweeper**
- **Class 24 PM-10 Sweeper**
- **Class 37 Stacker Belt**
- **Class 40 Trailer Mounted Patcher**
- **Class 54 Tractor W/Attachments**
- **Class 54B Backhoe**
- **Class 60C – Communications Trailer**
- **Class 72 Lab Trailer**



QUESTIONS ?





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