



THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan
Commissioner

William Cass, P.E.
Assistant Commissioner

October 23, 2015
Bureau of Mechanical Services

Her Excellency, Governor Margaret Wood Hassan
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

Pursuant to the provisions of Chapter 275, Laws of 2015, budget footnote 04-096-096-960515-30050000-030, the Department of Transportation requests to amend the Equipment Acquisition Plan approved by Governor and Council on August 26, 2015, Item 27 by adding additional equipment as a result of an additional \$600,000 included in the appropriated budget, to be effective upon Governor and Council approval through June 30, 2017.

EXPLANATION

The Department of Transportation, Bureau of Mechanical Services maintains a fleet of vehicles and equipment with an estimated replacement value of \$85.1 million. The fleet includes:

Description	Estimated Replacement Value
Extra Heavy Trucks (10 wheel dump trucks)	\$12,350,000
Heavy Trucks (6 wheel dump trucks)	\$38,160,000
Medium and Light Trucks (1-1/2 to 1/2 ton trucks)	\$11,077,500
Passenger Cars and Vans	\$2,032,000
Mobile Equipment (loaders, graders, tractors, core drills, etc.)	\$17,612,000
Trailers	\$140,000
Associated Equipment (salt spreaders)	\$3,745,000

This equipment is critical to the mission and efficiency of the Department and the Department considers most important the heavy, extra heavy, medium and light trucks while still considering other fleet unit as essential to completing the Department's mission. The Fiscal Year 2016 Amended Equipment Acquisition Plan includes the purchase of 5 Extra Heavy Duty Trucks, 15 Heavy Duty Trucks, 8 Medium Duty Trucks, 58 Light Duty Trucks, 29 Passenger Automobiles, 8 Mobile Equipment for Construction and 18 Salt Spreaders. The original Fiscal Year 2016 Equipment Acquisition Plan was approved by CBOC on 08/04/2015; Agenda # CAP 15-041 and further approved by the Governor and Executive Council on 08/26/2015; Item #27. The Amended Plan seeks approval to expend an additional \$600,000 that is included in the appropriated budget.

Attachment 1 to the plan outlines the Department's original request to purchase equipment estimated to cost \$1.4 million based on the Department's available equipment appropriation as proposed and approved in Committee of Conference. Attachment 1 also shows an additional purchase of \$600,000 for 4 ½ ton pick-up trucks and 29 passenger vehicles subject to an approval of this amendment.

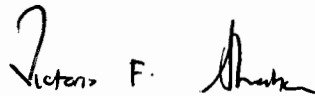
Attachment 2 to the plan outlines the Department's request to purchase equipment estimated to cost \$5 million based on the Department's available equipment appropriation through Chapter 220, Laws of 2015 (HB25).

Also, the Department is providing a "Fleet Summary", attachment 3 titled "Fiscal Year 2016 Fleet Statistics as of July 1, 2015" and attachment 4 "Fiscal Year 2015 Fleet Statistics as of July 1, 2014" to help explain the current condition and change in condition of the Department's fleet. These documents identify the number and type of units currently in service, along with usage parameters, replacement costs and the number of units that currently exceed typical replacement parameters. Unfortunately, the level of investment required to keep pace with equipment needs has not been sufficient in recent years. This summary illustrates a needed investment level of \$8.9 million per year to maintain the current fleet condition.

The Department will reassess priorities at trade time when all bid prices are known and quantities will be adjusted to remain within funds available. The actual number of units purchased may vary slightly when bid prices are known. Midsized passenger cars may also be replaced with compact cars pending waiver approval through the Department of Administrative Services acquisition process.

Your approval of this resolution is respectfully requested.

Sincerely,



Victoria F. Sheehan
Commissioner

Attachments

State of New Hampshire
Department of Transportation
Bureau of Mechanical Services

Fiscal Year 2016 Equipment Acquisition Plan

-Amended-

September 16, 2015

Prepared by:
William J. Dusavitch
Administrator

Submitted by:
William Cass, PE
Assistant Commissioner

Department of Transportation

Bureau of Mechanical Services

Fiscal Year 2016 Amended Equipment Acquisition Plan

Fleet Purchasing Process

Chapter 275.040969605153005, footnote class 030, Laws of 2015 requires the Department to Develop an Equipment Acquisition Plan and receive approval from both the Capital Budget Overview Committee and the Governor and Council before purchasing any new or replacement equipment. This Chapter also requires NHDOT, Bureau of Mechanical Services to submit a monthly status report of the plan to the Capital Budget Overview Committee and the Governor and Council. This document serves as the Fiscal Year 2016 Amended Equipment Acquisition Plan

The Department purchases replacement equipment and vehicles in five distinct and separate phases throughout a given fiscal year:

Phase I - Approval Process: The Department reviews the fleet to prioritize replacement needs considering equipment condition, age, and usage. Based on the needs identified and the available budget, the Department identifies the pieces to be replaced and prepares the Equipment Acquisition Plan. The Department then submits the plan to the Capital Budget Overview Committee and the Governor and Council for approval to expend Class 30 – Equipment New/Replacement funding as appropriated.

Phase II - Bid & Award: Once the Acquisition Plan is approved the Department works with Administrative Services to prepare a bid package that includes vehicle specifications and options. When the documents are complete Administrative Services puts the equipment out to bid, determines the low bidder and executes a notice of contract.

Phase III - Financial Evaluation: The Department compares the contract costs to the estimated costs. Minor quantity adjustments may be made to adjust for actual vs. estimated costs or because of equipment failure or other factors.

Phase IV – Purchasing: Purchasing is initiated based on the financial evaluation. Priority is given to purchasing the major units and equipment first. Remaining funds may be used to purchase necessary miscellaneous shop equipment.

Phase V - Reporting: The Department submits a monthly status report to both the Capital Budget Overview Committee and the Governor and Council.

Amendments: Based on actual expenditures and available funding mechanisms, any significant change to the approved plan will be submitted as an amendment to be approved by the Capital Budget Overview Committee and Governor and Council for approval.

The purpose of this amended Equipment Acquisition Plan is to seek approval to add the purchase of 4 ½ ton pick-up trucks and 29 mid-size sedans, as shown on Attachment 1 and totals \$600,000.

We respectfully request your approval of the Department's proposed amended Fiscal Year 2016 Equipment Acquisition Plan.

NHDOT - Bureau Of Mechanical Services

Fiscal Year 2016 Amended Equipment Acquisition Proposal

Attachment 1

Date 10/14/2015		Approved Plan		Proposed Addition	
	Projected Unit Cost	Units	Subtotal	Units	Subtotal
<u>LDT1- Light Duty Trucks - 1/2 Ton</u>					
1/2 Ton Pick-ups	\$19,000	12	\$228,000.00	4	\$76,000.00
<u>LDT2 - Light Duty Trucks - 1 ton-3/4 Ton</u>					
1 Ton Ex-cab 4x4 w/plow	\$50,000	1	\$50,000.00		
3/4 Ton Ex-cab	\$25,500	41	\$1,045,500.00		
<u>PASSAUTO - Passenger Autos</u>					
Midsize	\$18,000			29	\$522,000.00
<u>Miscellaneous</u>					
6-wheeler software	\$47,250	1	\$47,250		
10-wheeler software	\$26,850	1	\$26,850		
Misc. Shop Equipment			\$2,400		\$2,000
<u>Cost Summary</u>					
Proposed Appropriation Class 30 Funds			\$1,400,000.00		\$600,000.00
Estimated Appropriation Class 30 Spending			<u>\$1,400,000.00</u>		<u>\$600,000.00</u>
Available Balance			\$0.00		\$0.00
Total Units		56		33	

NHDOT- Bureau Of Mechanical Services

Fiscal Year 2016 Equipment Acquisition Proposal

Chapter 220, Laws of 2015 (HB25)

Attachment 2

7/20/2015

	Projected Unit Cost	Units	Subtotal
<u>EHDT - Extra Heavy Duty Trucks - 10 Wheelers</u>			
Plow Truck -Double Wing	\$166,000	4	\$664,000
Tandem Chassis	\$126,500		
11 YD Dump Body	\$15,000		
Double Wing Hydraulic	\$23,500		
Roll Top	\$1,000		
Knuckle Boom Crane Truck	\$250,000	1	\$250,000
<u>HDT- Heavy Duty Trucks - 6 Wheelers</u>			
Plow Truck -Double Wing	\$132,000	15	\$1,980,000
3-5 Ton Chassis	\$95,000		
4-6 YD Dump Body	\$12,500		
Double Wing Hydraulic	\$23,500		
Roll Top	\$1,000		
<u>MDT- Medium Duty Trucks - Light 6 Wheelers</u>			
Aerial Buck Trucks - Signal/Sign	\$85,000	4	\$340,000
Dump Body w/ plow	\$53,000	4	\$212,000
<u>MEC - Mobile Equipment Construction</u>			
Graders	\$240,000	2	\$480,000
Loaders	\$160,000	1	\$160,000
Tractor Mowers			
97 HP - Over the Rail	\$106,000	5	\$530,000
<u>AE- Associated Equipment</u>			
5 cy spreader	\$20,290	14	\$284,060
11 cy spreader	\$25,290	4	\$101,160
<u>Cost Summary</u>			
Proposed Bonded Class 30 Funds			\$5,000,000
Estimated Bonded Class 30 Spending			<u>\$5,001,220</u>
Available Balance			-\$1,220
Total Pieces		54	

Fiscal Year 2016 Fleet Statistics as of July 1, 2015

Attachment 3

Effective 7/1/2015, revised 10/14/2015		A	B	C	D	E	F	G	H	I	J
Category	Category Description	Expected Age	Expected Usage Primary	Expected Usage Secondary	# Units	Approx. Replacement Costs (Total Fleet) (D x G)	# Exceeds Life Age or Usage	Approx. Replacement Costs	Current Replacement Sub Totals (F x G)	Current Replacement Totals (Sum of H)	Target Funding Level /Yr. (D/A x G)
0963900	MECHANICAL SERVICES				1192	12,350,000	613			3,900,000	
EHD1	Trucks_ExtraHeavy Duty >45000#				69	\$	21			\$	
19009	HD CRANE-H400	13	250,000 H	0 M	1	250,000	1	250,000	250,000		19,231
19010	BRIDGE INSPECTOR	15	0 H	0 M	1	500,000	1	500,000	500,000		33,333
55012	OVER 5 TON TRUCKS	12	12,000 H	250,000 M	58	10,150,000	12	175,000	2,100,000		845,833
55013	STRIPPER TRUCKS	10	180,000 M	0 N	5	750,000	5	150,000	750,000		75,000
55014	TRACTOR TRUCKS	12	15,000 H	180,000 M	3	450,000	2	150,000	300,000		37,500
61018	EDUCTORS	15	10,000 H	0 M	1	250,000	0	250,000	-		16,667
HDT	Trucks_Heavy Duty > 20001#				254	38,160,000	86			12,860,000	
55011	3 TO 5 TON TRUCKS	10	12,000 H	180,000 M	251	37,650,000	85	150,000	12,750,000		3,765,000
55021	CAR CARRIERS/WRECKERS	12	15,000 H	180,000 M	1	150,000	0	150,000	-		12,500
61022	PAINT VANS	10	18,000 H	150,000 M	1	110,000	1	110,000	110,000		11,000
61033	MOBIL CORE DRILL	15	12,000 H	150,000 M	1	250,000	0	250,000	-		16,667
MDT	Trucks_Medium Duty > 10001#				53	4,150,000	34			2,630,000	
55009	1 TO 1-1/2 TON TRUCKS	6	150,000 M	0 H	47	3,760,000	28	80,000	2,240,000		626,667
55010	PATROL TRUCKS	10	12,000 H	150,000 M	6	390,000	6	65,000	390,000		39,000
LD1	Trucks_Light Duty < 8501#				108	2,094,000	63			1,199,000	
55008	1/2 TON PICKUPS	5	110,000 M	0 N	102	1,938,000	61	19,000	1,159,000		387,600
55016	CARGOBOX TRUCKS - UP TO 8500 LBS	10	130,000 M	0 N	1	26,000	0	26,000	-		2,600
55022	SUVS - UP TO 8500 LBS	10	130,000 M	0 N	1	50,000	0	50,000	-		5,000
56001	VANS/BUSES - UP TO 8 PASSENGERS CAPACITY	10	130,000 M	0 N	4	80,000	2	20,000	40,000		8,000
LD12	Trucks_Light Duty > 8501#				185	4,833,500	108			2,850,500	
55015	3/4 TON PICKUPS	5	120,000 M	0 N	161	4,105,500	91	25,500	2,320,500		821,100
55017	CARGOBOX TRUCKS - 8501 LBS TO 10000 LBS	10	130,000 M	0 N	5	130,000	3	26,000	78,000		13,000
55023	SUVS - 8501 LBS TO 10000 LBS	10	130,000 M	0 N	14	420,000	10	30,000	300,000		42,000
61027	UTILITY VEHICLES	10	130,000 M	0 N	3	126,000	3	42,000	126,000		12,600
61028	ROAD ANALYSIS VEHICLES	10	0 M	0 N	2	52,000	1	26,000	26,000		5,200
PASSAUT	Passenger Autos_				113	2,006,000	85			1,524,000	
61024	COMPACT SEDANS	5	100,000 M	0 N	15	240,000	4	16,000	64,000		48,000
61025	MID SIZE SEDANS	5	100,000 M	0 N	97	1,746,000	80	18,000	1,440,000		349,200
61026	FULL SIZE SEDANS	5	100,000 M	0 N	1	20,000	1	20,000	20,000		4,000
VBI	Vans & Buses_ 1 seats 9-20				1	26,000	1			26,000	
56002	VANS/BUSES - 9 TO 20 PASSENGERS CAPACITY	10	130,000 M	0 N	1	26,000	1	26,000	26,000		2,600
MEC	Mobile Equipment_Construction				149	17,612,000	91			10,146,000	
11001	COMPRESSORS	10	7,500 H	0 N	24	384,000	18	16,000	288,000		38,400
19008	YARD CRANES	15	6,500 H	0 N	5	675,000	2	135,000	270,000		45,000
25001	MOTOR GRADERS	13	12,000 H	0 N	20	4,800,000	14	240,000	3,360,000		369,231
25003	MAINTAINERS	12	10,000 H	0 N	1	240,000	1	240,000	240,000		20,000
33002	WHEELED LOADERS	12	12,000 H	0 N	44	7,040,000	19	160,000	3,040,000		586,667
43001	SELF PROPELLED SWEEPERS	10	9,000 M	100,000 H	2	500,000	2	250,000	500,000		50,000
49001	TRACTOR/MOWERS	12	3,000 H	0 N	2	100,000	2	50,000	100,000		8,333
49002	TRACTOR/LOADERS	12	6,000 H	0 N	27	1,755,000	23	65,000	1,495,000		146,250
49003	TRACTOR/LOADER/BACKHOES	12	10,000 H	0 N	5	550,000	5	110,000	550,000		45,833

49007	FORK LIFTS	12	6,000 H	0 N	3 \$	150,000	2 \$	50,000 \$	100,000	\$	12,500
49013	SKID STEER LOADERS	12	5,000 H	0 N	9 \$	495,000	0 \$	55,000 \$	-	\$	41,250
59001	TRAILER WELDERS	15	5,000 H	0 N	1 \$	10,000	1 \$	10,000 \$	10,000	\$	667
61003	CORE DRILLS	15	12,000 H	0 N	5 \$	900,000	1 \$	180,000 \$	180,000	\$	60,000
61020	BOILER AND STEAM CLEANER	20	10,000 H	0 M	1 \$	13,000	1 \$	13,000 \$	13,000	\$	650
TRE	Trailers_Equipment-Flatbed	9 \$				90,000	7			\$	70,000
53002	TRAILERS	10	10,000 H	180,000 M	9 \$	90,000	7 \$	10,000 \$	70,000	\$	9,000
TRENC	Trailers_ Enclosed	2 \$				50,000	1			\$	25,000
53007	BOX TRAILERS	10	0 H	0 M	2 \$	50,000	1 \$	25,000 \$	25,000	\$	5,000
AE	Associated Equipment	249 \$				3,745,000	116			\$	1,740,000
61002	SLIDE-IN SPREADERS	15	12,000 H	0 N	247 \$	3,705,000	116 \$	15,000 \$	1,740,000	\$	247,000
61076	SELF PROPELLED SCISSORS LIFT	10	H	N	2 \$	40,000	0 \$	20,000 \$	-	\$	4,000
					Total= \$	85,116,500		Total=	\$	36,970,500	\$ 8,889,078

Notes: Approx. acquisition costs paid to purchase the current fleet \$57.8 million

Approx. depreciated value of the current fleet \$21.0 million

Column 'J': Target Funding Level / 'Yr.' represents a per year requirement for equipment replacement based on expected life.

To catch up over time:

1 Yr	\$36,970,500
5 Yrs	\$7,394,100
10 Yrs	\$3,697,050
15 Yrs	\$2,464,700

Fiscal Year 2015 Fleet Statistics as of July 1, 2014

Attachment 4

Effective 7/1/2014, revised 10/14/2015		A	B	C	D	E	F	G	H	I	J
Category	Category Description	Expected Age	Expected Usage Primary	Expected Usage Secondary	# Units	Approx. Replacement Costs (Total Fleet) (D x G)	# Exceeds Life Age or Usage	Approx. Replacement Costs	Current Replacement Sub Totals (F x G)	Current Replacement Class Totals (Sum of H)	Target Funding Level / Yr. (D/A x G)
0963800	MECHANICAL SERVICES										
EHDT	Trucks_ExtraHeavy Duty >45000#				69	12,350,000	30			5,475,000	
19009	HD CRANE-H400	13	250,000 H	0 M	1	250,000	1	250,000	250,000		19,231
19010	BRIDGE INSPECTOR	15	0 H	0 M	1	500,000	1	500,000	500,000		33,333
55012	OVER 5 TON TRUCKS	12	12,000 H	250,000 M	58	10,150,000	21	175,000	3,675,000		845,833
55013	STRIPPER TRUCKS	10	180,000 M	0 N	5	750,000	5	150,000	750,000		75,000
55014	TRACTOR TRUCKS	12	15,000 H	180,000 M	3	450,000	2	150,000	300,000		37,500
61018	EDUCTORS	15	10,000 H	0 M	1	250,000	0	250,000	-		16,667
HDT	Trucks_Heavy Duty > 20001#				243	35,310,000	86			12,435,000	
55011	3 TO 5 TON TRUCKS	10	12,000 H	180,000 M	240	34,800,000	85	145,000	12,325,000		3,480,000
55021	CAR CARRIERS/WRECKERS	12	15,000 H	180,000 M	1	150,000	0	150,000	-		12,500
61022	PAINT VANS	10	18,000 H	150,000 M	1	110,000	1	110,000	110,000		11,000
61033	MOBIL CORE DRILL	15	12,000 H	150,000 M	1	250,000	0	250,000	-		16,667
MDT	Trucks_Medium Duty > 10001#				53	4,150,000	33			2,555,000	
55009	1 TO 1-1/2 TON TRUCKS	6	150,000 M	0 H	47	3,760,000	28	80,000	2,240,000		626,667
55010	PATROL TRUCKS	10	12,000 H	150,000 M	6	390,000	5	65,000	325,000		39,000
LDT1	Trucks_Light Duty < 8501#				104	1,900,000	61			1,100,000	
55008	1/2 TON PICKUPS	5	110,000 M	0 N	98	1,764,000	60	18,000	1,080,000		352,800
55016	CARGOBOX TRUCKS - UP TO 8500 LBS	10	130,000 M	0 N	1	26,000	0	26,000	-		2,600
55022	SUVS - UP TO 8500 LBS	10	130,000 M	0 N	1	30,000	0	30,000	-		3,000
56001	VANS/BUSES - UP TO 8 PASSENGERS CAPACITY	10	130,000 M	0 N	4	80,000	1	20,000	20,000		8,000
LDT2	Trucks_Light Duty > 8501#				185	4,511,500	107			2,642,500	
55015	3/4 TON PICKUPS	5	120,000 M	0 N	161	3,783,500	91	23,500	2,138,500		756,700
55017	CARGOBOX TRUCKS - 8501 LBS TO 10000 LBS	10	130,000 M	0 N	5	130,000	2	26,000	52,000		13,000
55023	SUVS - 8501 LBS TO 10000 LBS	10	130,000 M	0 N	14	420,000	10	30,000	300,000		42,000
61027	UTILITY VEHICLES	10	130,000 M	0 N	3	126,000	3	42,000	126,000		12,600
61028	ROAD ANALYSIS VEHICLES	10	0 M	0 N	2	52,000	1	26,000	26,000		5,200
PASSAULT	Passenger Autos_				113	1,812,000	81			1,300,000	
61024	COMPACT SEDANS	5	100,000 M	0 N	15	240,000	4	16,000	64,000		48,000
61025	MID SIZE SEDANS	5	100,000 M	0 N	97	1,552,000	76	16,000	1,216,000		310,400
61026	FULL SIZE SEDANS	5	100,000 M	0 N	1	20,000	1	20,000	20,000		4,000
VB1	Vans & Buses_1 seats 9-20				1	26,000	1			26,000	
56002	VANS/BUSES - 9 TO 20 PASSENGERS CAPACITY	10	130,000 M	0 N	1	26,000	1	26,000	26,000		2,600
MEC	Mobile Equipment_Construction				150	16,347,000	89			9,096,000	
11001	COMPRESSORS	10	7,500 H	0 N	24	384,000	18	16,000	288,000		38,400
19008	YARD CRANES	15	6,500 H	0 N	5	675,000	2	135,000	270,000		45,000
25001	MOTOR GRADERS	13	10,000 H	0 N	20	4,800,000	12	240,000	2,880,000		369,231
25003	MAINTAINERS	12	10,000 H	0 N	1	240,000	1	240,000	240,000		20,000
33002	WHEELED LOADERS	12	12,000 H	0 N	44	5,720,000	19	130,000	2,470,000		476,667
43001	SELF PROPELLED SWEEPERS	10	9,000 M	100,000 H	2	500,000	2	250,000	500,000		50,000
49001	TRACTOR/MOWERS	12	3,000 H	0 N	2	100,000	2	50,000	100,000		8,333
49002	TRACTOR/MOWERS	12	6,000 H	0 N	27	1,755,000	23	65,000	1,495,000		146,250
49003	TRACTOR/LOADER/BACKHOES	12	10,000 H	0 N	5	550,000	5	110,000	550,000		45,833

49007	FORK LIFTS	12	6,000	H	0	N	3	\$	150,000	2	\$	50,000	\$	100,000	\$	12,500
49013	SKID STEER LOADERS	12	5,000	H	0	N	10	\$	550,000	0	\$	55,000	\$	-	\$	45,833
59001	TRAILER WELDERS	15	5,000	H	0	N	1	\$	10,000	1	\$	10,000	\$	10,000	\$	667
61003	CORE DRILLS	15	12,000	H	0	N	5	\$	900,000	1	\$	180,000	\$	180,000	\$	60,000
61020	BOILER AND STEAM CLEANER	20	10,000	H	0	M	1	\$	13,000	1	\$	13,000	\$	13,000	\$	650
TRF	Trailers_Equipment_Flatbed						11	\$	110,000	8	\$		\$		\$	80,000
53002	TRAILERS	10	10,000	H			11	\$	110,000	8	\$	10,000	\$	80,000	\$	11,000
TRENC	Trailers_Enclosed						2	\$	50,000	2	\$		\$		\$	50,000
53007	BOX TRAILERS	10	0	H	0	M	2	\$	50,000	2	\$	25,000	\$	50,000	\$	5,000
AE	Associated Equipment						242	\$	3,640,000	109	\$		\$		\$	1,635,000
61002	SLIDE-IN SPREADERS	15	12,000	H	0	N	240	\$	3,600,000	109	\$	15,000	\$	1,635,000	\$	240,000
61076	SELF PROPELLED SCISSORS LIFT	10		H			2	\$	40,000	0	\$	20,000	\$	-	\$	4,000
							Total=	\$	80,206,500			Total=	\$	36,404,500	\$	8,353,662

Notes: Approx. acquisition costs paid to purchase the current fleet \$55.9 million

Approx. depreciated value of the current fleet \$21.1 million

Column J: 'Target Funding Level / Yr.' represents a per year requirement for equipment replacement based on expected life.

To catch up over time:

1 yr	\$36,404,500
5 yrs	\$7,280,900
10 yrs	\$3,640,450
15 yrs	\$2,426,967