THE PORT AUTHORITY OF NY & NJ

PROCUREMENT DEPARTMENT
2 MONTGOMERY STREET, 3RD FL.
JERSEY CITY, NJ 07302

1/12/2015

ADDENDUM # 2

To prospective Bidder(s) on Bid # 40783 to Supply and Deliver Rail Diesel-Hydraulic Vacuum Excavators (Ballast Vacuum System) and Related Equipment for PATH

Due back on 1/20/2015 no later than 11:00 AM:

I. CHANGES/MODIFICATIONS

The following change is hereby made to the solicitation document:

PART V – SPECIFICATIONS

Insert the following as a new Section:
"3.28.2.6 Unloading of the hopper shall be performed by: (1) having the box floor on an angle so that material falls out when doors are opened; (2) having the box floor flat and lifting it with hydraulic cylinder lifts so that material falls out when doors are opened; or (3) using conveyor belts to slide out material. The Contractor may propose an alternate means of off-loading materials, subject to PATH written approval."

II. BIDDER'S QUESTIONS AND ANSWERS

The following information is available in response to questions submitted by prospective Bidders. The responses should not be deemed to answer all questions, which have been submitted by Bidders to the Port Authority. It addresses only those questions, which the Port Authority has deemed to require additional information and/or clarification. The fact that information has not been supplied with respect to any questions asked by a Bidders does not mean or imply, nor should it be deemed to mean or imply, any meaning, construction, or implication with respect to the terms.

The Port Authority makes no representations, warranties or guarantees that the information contained herein is accurate, complete or timely or that such information accurately represents the conditions that would be encountered during the performance of the Contract. The furnishing of such information by the Port Authority shall not create or be deemed to create any obligation or liability upon it for any reason whatsoever and each Bidder, by submitting its Bid, expressly agrees that it has not relied upon the foregoing information, and that it shall not hold the Port Authority liable or responsible therefor in any manner

whatsoever. Accordingly, nothing contained herein and no representation, statement or promise, of the Port Authority, its Commissioners, officers, agents, representatives, or employees, oral or in writing, shall impair or limit the effect of the warranties of the Bidder required by this Bid or Contract and the Bidder agrees that it shall not hold the Port Authority liable or responsible therefor in any manner whatsoever.

The Questions and Answers numbering sequence will be continued sequentially in any forthcoming Addenda that may be issued.

Question # 1	At what grade is the 20 MPH speed required, and is PATH able to provide a track grade chart?
Answer # 1	The 20 MPH speed is required on straightaway track, fully loaded. See attached track grade chart.
Question # 2	Are you able to define what operational performance is expected of the machine for each condition?
Answer # 2	The Vacuum System must perform according to the specifications for the conditions in Specification 3.2.3.
Question # 3	Please define maximum sustained grade. To what distance in track feet does the grade relate? Also, what is the tie spacing for PATH, and is it consistent throughout the track?
Answer # 3	See attached track grade chart. The majority of tie spacing in the tunnels is 22” to 24” on center, with ties that are 9” wide.
Question # 4	Does PATH have a preferred audio/visual warning device system? Can you provide examples?
Answer # 4	No. An example would be a horn and strobe light for outside warnings and a light that beeps and flashes on the control panel inside the cab.
Question # 5	Are there limits to the number of axles per truck?
Answer # 5	Limits are in accordance with Component Cooper Rating E45 of the AREMA standards, as addressed in Chapter 15 of the 2014 Manual for Railway Engineering, which covers Steel Structures. Any car manufactured must be within these limits.
Question # 6	Stainless Steel is above and beyond the requirement of National Electrical Manufacturers Association (NEMA) and will add cost. Are NEMA-approved alternatives acceptable?
Answer # 6	No.
Question # 7	We did not see any specifications regarding off-loading capabilities. What is required?
Answer # 7	See above.

This communication should be initialed by you and annexed to your Bid upon submission. In case any Bidder fails to conform to these instructions, its Bid will nevertheless be construed as though this communication had been so physically annexed and initialed.

THE PORT AUTHORITY OF NY & NJ

KATHY LESLIE WHELAN
ASSISTANT DIRECTOR
COMMODITIES & SERVICES DIVISION

BIDDER'S FIRM NAME: _____

INITIALED: _____DATE: _____

QUESTIONS CONCERNING THIS ADDENDUM MAY BE ADDRESSED TO JOHN SANTIAGO AT JOHN.SANTIAGO@PANYNJ.GOV OR 201-395-3416.

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
A	1010	+	70	1011	+	20	1.58	50
A	1011	+	20	1017	+	10	-0.5	590
A	1017	+	43	1026	+	98	-1.377	955
A	1026	+	80	1031	+	20	0.5	440
A	1031	+	20	1033	+	90	2.41	270
A	1033	+	90	1035	+	0	-1.17	110
A	1035	+	0	1036	+	20	-1.17	120
A	1036	+	20	1054	+	10	-0.59	1790
A	1054	+	10	1063	+	40	-2.54	930
A	1063	+	43	1064	+	65	-0.3	122
A	1064	+	65	1065	+	60	-0.14	95
A	1065	+	60	1068	+	17	0.374	257
A	1068	+	53	1070	+	92	0	239
A	1068	+	17	1068	+	53	0.937	36
A	1070	+	92	1071	+	53	1.118	61
A	1071	+	53	1072	+	73	0.216	120
A	1072	+	73	1074	+	14	0.832	141
A	1074	+	14	1075	+	4	0.864	90
A	1075	+	94	1077	+	25	0.996	131
A	1075	+	4	1075	+	94	0.111	90
A	1077	+	25	1080	+	26	-0.442	301
A	1080	+	26	1083	+	39	-0.724	313
A	1083	+	39	1084	+	22	-0.728	83
A	1084	+	39	1085	+	76	-0.323	137
A	1085	+	76	1087	+	60	-0.635	184
A	1090	+	8	1091	+	1	-1.611	93
A	1091	+	1	1092	+	52	-2.36	151
A	1092	+	52	1093	+	42	-4	90
A	1093	+	42	1095	+	27	-1.4	185
A	1095	+	27	1096	+	14	0	87
A	1096	+	14	1097	+	13	-4.423	99
A	1097	+	80	1098	+	70	-3	90
A	1097	+	13	1097	+	80	-4.571	67
A	1098	+	70	1099	+	96	-3.716	126
A	1099	+	96	1100	+	66	-4.2	70
A	1100	+	66	1101	+	28	-3.1	62
A	1101	+	28	1102	+	18	-3.55	90
A	1102	+	18	1103	+	9	-3.815	91
A	1103	+	9	1104	+	30	-3.457	121
A	1104	+	30	1109	+	98	-1.593	568
A	1109	+	98	1113	+	23	5.465	325
A	1113	+	23	1116	+	36	1.404	313
A	1116	+	36	1119	+	46	0	310

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
A	1119	+	46	1124	+	31	0.718	485
A	1124	+	31	1127	+	5	-0.273	274
A	1127	+	5	1128	+	87	-0.273	182
A	1128	+	87	1132	+	41	-0.055	354
A	1132	+	41	1137	+	21	-0.324	480
A	1137	+	21	1139	+	97	3.271	276
A	1139	+	97	1147	+	66	1.144	769
A	1147	+	66	1151	+	91	1.765	425
A	1151	+	91	1156	+	32	3.469	441
A	1156	+	32	1158	+	10	4.962	178
A	1158	+	10	1159	+	14	3.257	104
A	1159	+	48	1160	+	7	1.521	59
A	1159	+	14	1159	+	48	0	34
A	1160	+	88	1163	+	26	0.134	238
A	1160	+	7	1160	+	88	0.123	81
A	1163	+	71	1165	+	65	1.333	194
A	1163	+	26	1163	+	71	2.567	45
A	1165	+	65	1166	+	17	-2.019	52
A	1165	+	50	1165	+	65	1.333	15
A	1166	+	68	1167	+	35	-3.301	67
A	1166	+	17	1166	+	68	-4.45	51
A	1167	+	35	1168	+	39	-2.089	104
A	1168	+	39	1168	+	89	-0.395	50
A	1168	+	89	1169	+	23	-0.424	34
A	1169	+	23	1170	+	34	-1.546	111
A	1170	+	34	1171	+	36	0.9304	102
A	1171	+	36	1174	+	28	1.4212	292
A	1174	+	28	1176	+	71	2.428	243
A	1176	+	71	1177	+	62	1.7033	91
A	1177	+	62	1178	+	95	3.4211	133
A	1178	+	95	1180	+	48	2.2549	153
A	1180	+	48	1182	+	83	2.997	235
A	1182	+	83	1184	+	65	2.131	182
A	1184	+	65	1185	+	66	3.7426	101
A	1185	+	66	1186	+	80	2.7982	114
A	1186	+	80	1187	+	29	0.5102	49
A	1187	+	29	1189	+	0	0.53	171
B	5	+	0	5	+	70	-0.81	70
B	5	+	70	6	+	8	-4.03	38
B	6	+	99	8	+	41	-3.808	142
B	6	+	8	6	+	99	-4.741	91
B	8	+	41	9	+	10	-4.599	69
B	9	+	72	10	+	43	-4.883	71

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
B	9	+	10	9	+	72	-3.15	62
B	10	+	75	12	+	48	-4.345	173
B	10	+	43	10	+	75	-2.902	32
B	12	+	48	16	+	23	-3.703	375
B	16	+	23	17	+	50	-4.338	127
B	17	+	50	18	+	0	-4.127	50
B	18	+	81	20	+	22	-4.647	141
B	18	+	0	18	+	81	2.537	81
B	20	+	22	21	+	33	-1.763	111
B	21	+	33	22	+	3	0	70
B	22	+	3	22	+	65	-1.667	62
B	22	+	65	23	+	0	0	35
B	23	+	33	24	+	4	0	71
B	23	+	13	23	+	33	1.25	20
B	23	+	0	23	+	13	0	13
B	24	+	86	26	+	7	0.772	121
B	24	+	4	24	+	86	2.505	82
B	26	+	7	27	+	8	2.334	101
B	27	+	71	28	+	93	2.415	122
B	27	+	9	27	+	71	0	62
B	28	+	93	29	+	56	-0.352	63
B	29	+	84	30	+	74	-0.112	90
B	29	+	56	29	+	84	-1.046	28
B	30	+	74	31	+	0	-0.337	26
B	31	+	0	32	+	65	-0.337	165
B	32	+	65	33	+	42	-3.047	77
B	33	+	42	33	+	88	0.112	46
B	33	+	88	34	+	3	1.287	15
B	34	+	25	35	+	56	0.107	131
B	34	+	3	34	+	25	0.138	22
B	35	+	56	36	+	36	1.642	80
B	36	+	36	36	+	68	0.134	32
B	36	+	88	37	+	8	0.137	20
B	36	+	68	36	+	88	1.13	20
B	37	+	28	37	+	78	0.819	50
B	37	+	8	37	+	28	0	20
B	37	+	78	37	+	98	1.77	20
B	37	+	98	38	+	15	0.819	17
B	38	+	15	40	+	12	-0.764	197
B	40	+	13	47	+	52	-0.433	739
B	47	+	52	50	+	58	-0.947	306
B	50	+	58	52	+	6	-0.338	148
B	52	+	6	58	+	47	-0.539	641

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
B	58	+	47	63	+	67	-0.452	520
B	63	+	67	66	+	27	-0.673	260
B	66	+	27	68	+	35	-0.183	208
B	68	+	35	71	+	0	-0.95	265
B	71	+	0	72	+	26	0	126
B	72	+	26	75	+	13	0.679	287
B	75	+	13	75	+	76	-0.637	63
B	93	+	0	100	+	0	2.39	700
B	100	+	0	107	+	0	1.34	700
B	107	+	80	115	+	80	0.61	800
B	107	+	0	107	+	80	1.34	80
B	115	+	80	124	+	90	-0.41	910
B	124	+	90	128	+	30	-0.24	340
B	128	+	30	139	+	0	2.1	1070
B	139	+	0	158	+	0	0.08	1900
B	158	+	0	159	+	0	0.08	100
B	159	+	0	166	+	0	-1.45	700
B	166	+	0	175	+	70	1.37	970
B	175	+	70	182	+	20	-1.1	650
C	1162	+	48	1163	+	1	-0.178	53
C	1163	+	74	1165	+	23	0.189	149
C	1163	+	1	1163	+	74	0.461	73
C	1165	+	23	1166	+	27	-1.897	104
C	1166	+	27	1167	+	5	-2.077	78
C	1167	+	5	1168	+	38	-2.781	133
C	1168	+	38	1169	+	8	-0.302	70
C	1169	+	75	1171	+	51	0.288	176
C	1169	+	8	1169	+	75	-1.598	67
C	1171	+	51	1171	+	84	1	33
D	1281	+	56	1282	+	40	1.4	84
D	1282	+	40	1283	+	1	0.4	61
D	1283	+	74	1285	+	57	2.181	183
D	1283	+	1	1283	+	74	1.869	73
D	1285	+	57	1287	+	31	1.459	174
D	1287	+	31	1288	+	61	-1.697	130
D	1288	+	61	1290	+	24	1.027	163
D	1290	+	24	1291	+	6	0	82
E	1171	+	0	1179	+	10	-3.06	810
E	1179	+	10	1184	+	0	-1.71	490
E	1184	+	0	1187	+	50	-1.71	350
E	1187	+	50	1196	+	0	1.06	850
E	1196	+	0	1199	+	0	0.48	300
E	1199	+	0	1204	+	40	0.48	540

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
E	1204	+	40	1215	+	80	0.54	1140
E	1215	+	80	1222	+	60	0.44	680
E	1222	+	60	1223	+	0	0	40
E	1223	+	30	1226	+	0	0.5	270
E	1223	+	0	1223	+	30	0	30
E	1226	+	0	1228	+	80	0.5	280
E	1228	+	80	1239	+	0	3.59	1020
E	1239	+	0	1240	+	0	0.26	100
E	1240	+	0	1251	+	40	0.26	1140
E	1251	+	40	1262	+	0	-0.55	1060
E	1262	+	0	1272	+	40	-0.162	1040
E	1272	+	40	1279	+	90	-3.45	750
E	1279	+	90	1280	+	70	-0.35	80
E	1280	+	70	1281	+	0	-0.7	30
E	1281	+	0	1287	+	70	-0.7	670
E	1287	+	70	1295	+	30	1.73	760
F	1022	+	50	1027	+	30	-0.44	480
F	1027	+	30	1037	+	0	1.56	970
F	1037	+	30	1047	+	30	0.98	1000
F	1037	+	0	1037	+	30	1.56	30
F	1047	+	30	1055	+	20	0.66	790
F	1055	+	20	1067	+	0	-0.49	1180
F	1067	+	0	1076	+	90	-1.11	990
F	1076	+	90	1077	+	0	-1.72	10
F	1077	+	0	1088	+	50	-1.72	1150
F	1088	+	50	1092	+	0	-0.5	350
F	1092	+	0	1095	+	0	-0.5	300
F	1095	+	70	1099	+	20	-1.1	350
F	1095	+	0	1095	+	70	-0.5	70
F	1099	+	20	1109	+	20	-0.52	1000
F	1109	+	20	1118	+	50	-0.5	930
F	1118	+	50	1121	+	0	-0.49	250
F	1121	+	0	1132	+	10	-0.49	1110
F	1132	+	10	1139	+	0	1.68	690
F	1139	+	90	1153	+	20	4.21	1330
F	1139	+	0	1139	+	90	1.68	90
G	1223	+	0	1229	+	80	0.5	680
G	1229	+	80	1236	+	70	3.44	690
G	1236	+	70	1240	+	0	0.44	330
G	1240	+	0	1247	+	0	2.79	700
G	1247	+	0	1248	+	10	2.79	110
G	1248	+	10	1255	+	10	0.5	700
G	1255	+	10	1257	+	0	2.82	190

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
G	1257	+	0	1258	+	30	2.82	130
G	1258	+	30	1269	+	90	0.52	1160
G	1269	+	90	1277	+	0	-1	710
G	1277	+	0	1279	+	60	-0.5	260
G	1279	+	60	1286	+	0	2.5	640
G	1286	+	0	1288	+	70	1.62	270
G	1288	+	70	1294	+	50	1	580
G	1294	+	50	1309	+	0	0.14	1450
G	1309	+	0	1314	+	0	0.22	500
G	1314	+	0	1317	+	25	0.396	325
G	1317	+	25	1325	+	0	0.054	775
G	1335	+	0	1342	+	0	-0.56	700
G	1342	+	0	1347	+	5	-0.251	505
G	1347	+	50	1354	+	50	-0.676	700
G	1354	+	50	1358	+	0	-0.334	350
G	1358	+	0	1362	+	0	-0.638	400
G	1362	+	0	1368	+	0	-0.353	600
G	1368	+	0	1373	+	0	0.504	500
G	1373	+	0	1380	+	0	1.072	700
G	1380	+	0	1381	+	0	1.072	100
G	1381	+	0	1383	+	50	1.57	250
G	1383	+	50	1390	+	80	0.37	730
G	1390	+	80	1392	+	43	0	163
G	1392	+	43	1394	+	8	0.11	165
G	1394	+	8	1395	+	73	-0.11	165
G	1395	+	73	1397	+	35	0	162
G	1397	+	35	1399	+	20	0.09	185
G	1399	+	20	1419	+	0	-1.06	1980
G	1419	+	0	1425	+	0	-1.078	600
G	1425	+	0	1441	+	50	-0.974	1650
G	1441	+	50	1462	+	0	0.47	2050
G	1462	+	0	1471	+	0	0	900
G	1471	+	0	1496	+	0	-0.074	2500
G	1496	+	0	1505	+	50	0.008	950
G	1505	+	50	1516	+	0	0.101	1050
G	1516	+	0	1523	+	0	-0.093	700
G	1535	+	0	1523	+	0	0.27	-1200
G	1542	+	0	1549	+	0	0.342	700
G	1542	+	0	1535	+	0	0.539	-700
G	1596	+	0	1602	+	62	1.7	662
G	1602	+	62	1610	+	40	3.91	778
G	1610	+	40	1613	+	0	0.96	260
G	1613	+	0	1616	+	75	-2.2	375

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
G	1616	+	75	1622	+	6	-0.48	531
G	1622	+	6	1624	+	43	-0.1	237
G	1624	+	43	1627	+	44	0.03	301
G	1627	+	44	1628	+	80	0	136
G	1628	+	80	1630	+	0	-0.34	120
G	1630	+	50	1634	+	41		391
G	1634	+	41	1638	+	75	-1.41	434
G	1638	+	76	1644	+	21	5.22	545
G	1644	+	21	1648	+	24	-0.7	403
G	1648	+	24	1654	+	36	-3.48	612
G	1654	+	36	1662	+	76	0.1	840
G	1662	+	76	1679	+	76	-0.04	1700
H	639	+	7	645	+	37	0.04	630
H	645	+	37	662	+	69	-0.14	1732
H	662	+	69	668	+	89	3.48	620
H	668	+	89	672	+	77	0.07	388
H	672	+	77	678	+	84	-4.56	607
H	678	+	84	682	+	73	1.41	389
H	683	+	73	684	+	0		27
H	684	+	0	686	+	0		200
H	686	+	0	687	+	32	-0.04	132
H	687	+	32	688	+	65	0.05	133
H	688	+	65	693	+	22	0.01	457
H	693	+	22	694	+	42	0.49	120
H	694	+	42	696	+	0	2.54	158
H	696	+	0	697	+	40	2.84	140
H	697	+	40	710	+	45	-4.06	1305
H	710	+	45	712	+	24	-3.13	179
H	712	+	24	715	+	99	-0.51	375
H	716	+	0	721	+	50	-0.222	550
H	721	+	50	724	+	50	-0.743	300
H	724	+	50	727	+	50	-0.197	300
H	727	+	50	734	+	50	-0.611	700
H	734	+	50	742	+	95	-0.44	845
H	742	+	95	752	+	55	-0.276	960
H	752	+	55	762	+	20	0	965
H	762	+	20	766	+	40	0.405	420
H	766	+	40	777	+	50	0.607	1110
H	777	+	50	783	+	5	0	555
H	783	+	5	802	+	50	-0.754	1945
H	802	+	50	810	+	0	0.133	750
H	810	+	0	817	+	0	0.224	700
H	817	+	0	820	+	50	0.076	350

TRACK GRADE CHART								
TUNNEL	START MARKER + FEET FROM MARKER			END MARKER + FEET FROM MARKER			GRADE	FEET
H	820	+	50	823	+	50	0	300
H	823	+	50	848	+	0	0.08	2450
H	848	+	0	854	+	50	0	650
H	854	+	50	877	+	0	-0.04	2250
H	877	+	0	896	+	0	0.99	1900
H	896	+	0	900	+	50	1.04	450
H	900	+	50	917	+	42	1	1692
H	917	+	42	929	+	34	0	1192
H	929	+	34	939	+	0	-1.02	966
H	939	+	0	948	+	50	-0.98	950
H	948	+	50	955	+	0	0.45	650
H	955	+	0	959	+	50	0.63	450
H	959	+	50	963	+	0	0.33	350
H	963	+	0	966	+	0	0.62	300
H	966	+	0	976	+	50	0.46	1050
H	976	+	50	982	+	0	0.57	550
H	982	+	0	992	+	0		1000
H	992	+	0	1001	+	0	-0.05	900
H	1001	+	0	1015	+	0	-0.25	1400
H	1015	+	0	1022	+	43	-1.03	743
H	1022	+	80	1024	+	20	-4.2	140
H	1024	+	20	1028	+	80	-4	460
H	1028	+	80	1031	+	30	-0.62	250
H	1031	+	30	1037	+	60	-2.5	630
H	1037	+	60	1040	+	30	0.47	270
H	1040	+	30	1048	+	0	1	770
H	1048	+	0	1059	+	20	-0.58	1120
H	1059	+	20	1061	+	0	-2.82	180
H	1061	+	0	1062	+	50	-2.82	150
H	1062	+	50	1073	+	0	-0.5	1050
H	1073	+	0	1074	+	30	-0.5	130
H	1074	+	30	1079	+	70	-3.5	540
H	1079	+	70	1087	+	20	-3.34	750
H	1087	+	20	1094	+	50	-0.5	730
J	1071	+	50	1077	+	50	0.5	600
J	1077	+	50	1080	+	90	-2.39	340
J	1080	+	90	1082	+	30	0.25	140
K	1077	+	10	1078	+	0	-0.89	90
K	1078	+	0	1081	+	20	2	320
K	1081	+	20	1083	+	20	2.79	200
L	1228	+	67	1229	+	59	0.508	92