

APPENDIX O

Air/Noise Update Analysis Update Correlated to traffic

PROJECT IMPACTS ON AIR/NOISE DUE TO UPDATED TRAFFIC STUDY

Prior to completion of the DEIS, the traffic study was updated by Frederick P. Clark and Associates, Inc. (FPCA) to address site generated traffic impacts for the analysis year 2012 accounting for any changes in the projected No Build and Build traffic volumes. The potential traffic related air quality and noise impacts of the proposed project as summarized in the DEIS were previously evaluated for the analysis year 2011. The results of the FPCA 2012 traffic analysis were reviewed with respect to the impact of the change in traffic volumes on the results and conclusions of both the technical air quality and noise studies. The results of this qualitative assessment are as follows:

With respect to the air quality analysis, the effect of the 2012 traffic volumes on both intersection capacity and the corresponding levels-of-service (LOS) were reviewed to determine any change in the prior study results and conclusions. Since traffic volumes have a direct effect on CO levels, any incremental change in volumes would have a proportional increase or decrease in projected CO levels. The updated LOS analysis indicates the critical intersection remains at Route 312 with the I-84 WB Ramps and the proposed Site Entrance. The updated traffic study indicated that the 2012 No Build volumes will remain the identical to 2011 volumes during the weekday PM peak hour at the critical intersection analyzed based on the recent count data. In addition, the 2012 Build volumes decrease by 52 vehicles compared to the 2011 Build conditions analyzed (Table A-1 attached) due to trip diversions to the northern Site Entrance. The updated traffic study indicates that the 2012 Build traffic volumes decrease and the LOS will improve slightly at the critical intersection compared to the 2011 conditions analyzed, resulting in CO levels less than the 2011 Build CO levels in the DEIS. In addition, vehicle related CO emissions decrease in future years so the 2011 estimates would be slightly conservative estimates for the 2012 Build CO levels. Therefore, the updated 2012 traffic study will not alter the DEIS findings and conclusions regarding the insignificant impact of the project on air quality determined for the 2011 Build conditions.

With respect to the noise assessment, the traffic impact was addressed two residences along Route 312 in the vicinity of the intersections with both Zimmer Road and Prospect Road. The 2011 No Build traffic volumes did not change at these intersections for the 2012 analysis year based on the updated No Build projections. The proposed 2012 Build traffic volumes along Route 312 remain the same as 2011 Build volumes at the Prospect Road intersection and increase only by 7 total vehicles at the Zimmer Road intersection. The results of the 2011 noise analysis summarized in the DEIS indicated the incremental project impact of less than 1 dBA at both receptors analyzed. The additional 7 vehicles at Zimmer Road under 2012 Build conditions would not change the results of the 2011 noise assessment. Therefore, the updated 2012 traffic study will not alter the findings and conclusions regarding the project's insignificant impact on community noise levels determined for the 2011 Build conditions.

Based on the review of the updated traffic study and the above qualitative assessment regarding the air quality and noise studies in the DEIS, it was determined that the proposed site-generated traffic for the year 2012 conditions would not alter the findings of the DEIS on the 2011 Build conditions. Therefore, no technical analysis was required to address the 2012 project impacts on air quality and noise for comparison with the future 2012 No Build conditions.

Table A-1
 2009/2012 TRAFFIC STUDIES – INTERSECTION TRAFFIC VOLUMES COMPARISON – PEAK HOURS
 Crossroads 312
 Route 312
 Southeast, New York

INTERSECTIONS	DIFFERENCES IN TRAFFIC VOLUMES					
	Weekday Morning		Weekday Afternoon		Saturday Midday	
	No-Build	Build	No-Build	Build	No-Build	Build
U.S. Route 6 at Route 312/Access Road	0	2	0	8	0	7
Route 312 at I-84 Eastbound Interchange 19 On/Off Ramps/Independent Way	0	4	0	12	0	11
Route 312 at I-84 Westbound Interchange 19 On/Off Ramps/Site Access Drive	0	-13	0	-52	0	-100
Route 312 at International Boulevard	0	21	0	43	0	111
Route 312 at Site Access Drive	--	36	--	117	--	222
Route 312 at Zimmer Road	0	1	0	7	0	4
Route 312 at North Brewster Road	0	1	0	6	0	4
Route 312 at Farm to Market Road/Brewster Hill Road	0	1	0	6	0	2
Route 22 at Route 312/Towne Centre Access Drive	89	90	100	106	22	24

Frederick P. Clark Associates, Inc.

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