Chapter 15: Energy

A. INTRODUCTION

The Proposed Project would create new energy demands. The potential for impacts on these services is discussed below. The conclusion of this analysis is that the Proposed Project would not result in significant adverse impacts related to energy demands.

B. EXISTING CONDITIONS

Consolidated Edison (Con Ed) supplies electricity and gas to the area. Existing uses at the site do not generate significant energy consumption.

C. THE FUTURE WITHOUT THE PROPOSED ACTIONS

In the future without the proposed actions, no changes in energy consumption are anticipated at the project site.

D. PROBABLE IMPACTS OF THE PROPOSED ACTIONS

The Proposed Project, which would use natural gas (for heating) and electrical components (for cooling) for its HVAC systems, would create new energy demands at the site. Any new structures would be required to comply with the New York State Conservation Construction Code. This Code governs performance requirements of heating, ventilation, and air-conditioning systems, as well as the exterior building envelope. The Code, instituted on January 1, 1979, pursuant to Article Eleven of the Energy Law of the State of New York, requires that new and recycled buildings (both public and private) must be designed to ensure adequate thermal resistance to heat loss and infiltration. In addition, it provides requirements for the design and selection of mechanical, electrical, and illumination systems. In compliance with the Code, the basic designs would incorporate all required energy conservation measures, including meeting the Code's requirements relating to energy efficiency and combined thermal transmittance.

Electricity and gas would be supplied by Consolidated Edison, which would be used to provide heating, cooling, and lighting to the Proposed Project. With the Proposed Project, at least two existing transformer substations on the site would be decommissioned, and one new transformer/network substation would be constructed to serve the proposed buildings. Based on factors from Energy Consumption in New Building Design: An Impact Assessment of ASHRAE Standard 90-75, by Arthur D. Little, Inc. for the Federal Energy Administration, March 1976, consumption for operation is expected to be approximately 126 billion British Thermal Units (BTUs) per year. Consolidated Edison could easily supply this energy without disruption to the main distribution system. Thus, there would not be any significant adverse energy impacts from the Proposed Project. ✷