ATTACHMENT C

CONTAINMENT PURGE SYSTEM

INTERIM OPERATION PLAN

October 27, 1983

7510N

III. Primary Containment Purge System

The Primary Containment Purge System is subdivided into three non-safety related subsystems, (1) miniflow purge, (2) normal purge and (3) post-LOCA purge. These subsystems serve the containment (1) during normal plant operating conditions. (2) during planned reactor shutdowns, and (3) during post-LOCA operating conditions, respectively. A separate purge system is provided for each unit. A complete system description is provided in Section 9.4.9 of the Byron/Braidwood FSAR. Preoperational test requirements are provided in FSAR Table 14.2-39. These requirements call for the Purge System to be operational and tested prior to Unit 1 Fuel Load.

During Fuel Load and during low power startup testing the fission product inventory in the reactor core is trivial by comparison with the inventories employed by the FSAR safety analyses. There will be no significant release of radioactivity resulting from either normal operation, from a loss-of-coolant accident or from a core unloading event. As a result, there is no need for the Purge System to be operational during this period. Only containment isolation needs to be verified prior to core load to contain the small amounts of radioactivity which may be released. Consequently the startup and testing plan for the Unit 1 Primary Containment Purge System has been changed to the following:

1. Prior to Unit 1 Fuel Load: All Unit 1 containment purge isolation valves will be leak tested.

2. Prior to Unit 1 Operation above 5% power:

   a) The 42" containment purge valves will not be opened during oepration. If any of the other purge isolation valves need to be opened:

      1) the automatic actuation circuitry testing will be complete.

      2) the structural integrity of the purge duct will be verified to assure that there are no unmonitored leak paths.

   b. The entire purge system will be operational, balanced, and preoperationally tested prior to operation above approximately 5% power.

This startup plan will allow low power testing to be performed without causing any unacceptable levels of risk to the public health and safety.