



Attachment To LER 81-078/03X-1  
Beaver Valley Power Station  
Duquesne Light Company  
Docket No. 50-334

On 8/23/81, at 0145 hours, a surveillance test conducted to test for leakage through the containment airlock door seals, revealed leakage past the inner door seals. The inner door was then declared inoperable. Power operations continued as permitted by the action statement of Technical Specification 3.6.1.3. There were no safety implications as the outer airlock door tested satisfactorily.

At approximately 0400 hours, a containment entry was made to inspect the inner door O-ring. During the entry, the inner door O-rings, the door mating surfaces, and the locking ring mating surfaces were wiped and regreased. The inner door was then retested at 0505 hours and declared operable.

In order to preclude future problems with the door seal leakage, a design change procedure, DCP 322, "Miscellaneous Airlock Modification" was initiated on 11/5/81. This design change, completed on 6/5/82, modified the O-ring grooves to provide positive retention of the O-rings. This modification consisted of welding a 3/32 inch diameter stainless steel wire around the outer circumference of each of the four main door O-ring grooves. As a result of the addition of the wire, a smaller diameter ( $\frac{1}{2}$  inch) O-ring than before ( $\frac{9}{16}$  inch diameter) is required for proper operation of the seals. Also, to compensate for the reduction in diameter of the O-rings, the thickness of the locking wedges was increased.

Upon the resumption of normal plant operations following the refueling outage, no additional problems with O-ring seal leakage have been experienced.