TOLEDO EDISON

RICHARD P. CROUSE
Vice President
Nuclear
(419) 259-5221

License No. NPF-3
Docket No. 50-346
Serial No. 892

January 12, 1983

Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Stolz:

This letter is in reference to the turbine trip functional unit of the Anticipatory Reactor Trip System (ARTS) installed per NUREG 0737 Item II.K.2.10 at the Davis-Besse Nuclear Power Station Unit 1. Attachment B (Item 2 page B-5) of our previous letter (Serial No. 540, October 3, 1979) to you indicated that the reactor will be automatically tripped on a turbine trip (above 25 percent full power) when the pressure switches mounted on the fast acting solenoids on the turbine-generator control valves sense a decreasing oil pressure of less than 600 psig.

Subsequent to the above submittal, Toledo Edison has conducted several tests to determine the pressure perturbations on the oil system when the turbine steam valves are exercised. The results of the tests revealed that the existing pressure switch setpoint of 600 psig may result in an undesired trip of one or more of the remaining ARTS channels, resulting in a unit trip. Based on the results of the tests, Toledo Edison has proceeded to lower the pressure switch setpoints to 275 psig decreasing. This provides a greater margin from operational pressure and at the same time provides enough margin from the lowest oil pressure on a turbine trip to ensure that protective action does occur when required. Lowering the trip setpoint therefore reduces spurious trips of the ARTS and at the same time provides the intended protection to the turbine trip functional unit of the ARTS when required.

Very truly yours,

RPC:SCJ:RLW

jh b/2
cc:
DB-1 Resident NRC Inspector

A046