

**HTL/Kin-Tech Division**



United States Nuclear Regulatory Commission  
1450 Maria Lane  
Suite 210  
Walnut Creek, Ca. 94596

10/16/90

Attn: Mr. Alan Johnson

Subject: Report of Defect and non Compliance referce Code of Federal Regulations title 10 part 21.

Gentlemen:

Pacific Scientific Company was notified by Wolf Creek nuclear operating corporation that during testing (at 20% of rated load) Pacific Scientific Company Part number 1801533-03 Rod and bearing assemblies were failing at the mechanical swage joint between the rods and the plug end that contains the spherical bearing.

A representative of Wolf Creek hand carried some of these parts to our Yorba Linda facility where we tested 4 of them in the presence of their representative. Testing confirmed premature failure. Further investigation of manufacturing documents, at Pacific Scientific Co. indicates 20 parts were manufactured for Wolf Creek and did not contain the required test data to substantiate adequate testing was performed. Wolf Creek has notified us that all 20 assemblies are accounted for and any which had been in service had been removed. A report will be issued to Wolf Creek by Pacific Scientific Co. outlining root cause and Corrective actions to prevent recurrence.

An additional 100 parts from an order for 110 were manufactured in approximately the same time frame for Philadelphia Electric Peachbottom plant. Review of manufacturing documentation revealed lack of required test data but did contain inspection stamp of test technician. We strongly suspect Philadelphia Electric parts comply with required load requirements however they have been notified to return several to us for testing to positively confirm compliance. All 100 parts shipped to Philadelphia Electric are in their possession, all in stores and none in service.

NRC will be advised of test results of Philadelphia Electric parts.

Review of manufacturing documentation for orders to be shipped to other utilities indicates all tests as required were performed and test data available. Evidence indicates only 20 defective parts these all in possession of Wolf Creek.

00011

9010160130 901016  
FDR ADDCK 05000482  
S PNU

JE19  
1/0

**HTL/KIn-Tech Division**



Should you have any further Questions please feel free to call upon us.

Sincerely,

A handwritten signature in black ink, appearing to read 'PA Hadnagy', with a long horizontal flourish extending to the right.

Paul A. Hadnagy  
Director Quality Assurance

C/C:           Wolf Creek  
                  Attn: Mr. H. Chernoff

                  Philadelphus Electric  
                  Attn: Mr. D. Hitchens

                  R. Parod - PSCO  
                  F. Fredrikson - PSCO

HTL Kin-Over



Philadelphia Electric Co.  
Peachbottom Atomic Power Station  
RD#1  
Delta York County  
Pennsylvania 17314

Attn: Mr. Dean Hitchens, Procurement Engineering  
Reference: Telephone conversation 9/27/90 Hitchens/Hadnagy  
Subject: PECO 115-62435 potential Quality problem

Gentlemen:

Your stock code number PECO 115-62435 our part number 1801533-03 Rod & Bearing assembly was manufactured approximately in the same time frame as similar items manufactured for Wolf Creek which exhibited premature failure during load testing. Failure was caused by improper staking of bearing rod end to rods and improper or lack of testing during manufacture to assure load bearing capability of the assembly.

We manufactured 110 of these assemblies on our manufacturing outline shoporder No. 1-1905-558150 (copy enclosed) operation 0020 requires test to failure of first part staked and recording of test load at failure on the shop order. Test load was not recorded as required only Functional test stamp Q4 dated 10/12/87 as evidence of test in addition to Quantity to Stores was 109 indicating loss one assembly from lot of 110.

We are fairly confident the parts supplied to you are satisfactory for use however we wish to be positively sure by reviewing and possibly testing to failure 2 or 3 of the assemblies now in your possession.

Enclosed is a copy of the shop order which manufactured your parts and a copy of PSCO 01.07 which describes the staking and test procedures.

Should you have any additional questions, please do not hesitate to call upon me.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul A. Hadnagy".

Paul A. Hadnagy  
Director Quality Assurance