



**OFFICE OF RIVER PROTECTION**

P.O. Box 450, MSIN H6-60  
Richland, Washington 99352

**JUN 28 2019**

19-ECD-0042

Ms. Alexandra K. Smith, Program Manager  
Nuclear Waste Program  
Washington State  
Department of Ecology  
3100 Port of Benton Blvd.  
Richland, Washington 99354

Ms. Smith:

**DISPOSITION OF THE DOUBLE-SHELL TANK ANNULUS PUMPING EQUIPMENT**

This letter requests your concurrence to replace the annulus pumping equipment identified in HNF-3484, Rev. 10, *Double-Shell Tank Emergency Pumping Guide*, Appendix F. The U.S. Department of Energy, Office of River Protection (ORP) and Washington River Protection Solutions LLC (WRPS) worked with Washington State Department of Ecology staff to apply lessons learned while removing waste from Double-Shell Tank 241-AY-102 in order to improve preparedness to respond to such events. A lesson learned was that the annulus pumping equipment currently identified in Appendix F of HNF-3484 would not be effective for removing waste from the annulus of a double-shell tank. WRPS purchased new annulus pumping equipment based on the equipment that was successfully deployed for pumping waste from the 241-AY-102 annulus.

ORP is in the process of revising HNF-3484 in coordination with your staff to include the listing of the new annulus pumping equipment, which is identified in the Attachment. ORP requests that this Attachment replace Appendix F of HNF-3484 before the entire HNF-3484 revision is complete. ORP requests your concurrence that annulus pumping equipment currently identified in Appendix F of HNF-3484 can be discarded or repurposed. WRPS plans to store the new annulus pumping equipment in the 2101-M warehouse.

If you have any questions, please contact Jeremy Johnson, Deputy Federal Project Director, Tank Farms Programs Division. (509) 376-1866.

A handwritten signature in black ink, appearing to read "Robert G. Hastings".

Robert G. Hastings, Assistant Manager  
Tank Farms Project

ECD:JMS

Attachment

cc: See page 2

Ms. Alexandra K. Smith  
19-ECD-0042

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cc w/attach:

J. Cantu, Ecology  
A.S. Carlson, Ecology  
S.S. Lowe, Ecology  
J.J. Lyon, Ecology  
J.W. Mathey, Ecology  
N. Menard, Ecology  
D. Einan, EPA  
B.T. Becker, WRPS  
J.R. Follet, WRPS  
J.T. Hamilton, WRPS  
J.A. Joyner, WRPS  
T.R. Pickles, WRPS  
R.W. Szelmeczka, WRPS  
E.J. Van Mason, WRPS  
Administrative Record  
Environmental Portal  
WRPS Correspondence

cc w/o attach:

M. Johnson, CTUIR  
S.L. Dahl, Ecology  
J. Bell, NPT (Acting)  
G.P. Bohnee, NPT  
K. Niles, Oregon Energy  
R. Buck, Wanapum

**Attachment  
19-ECD-0042  
(1 Page Excluding Cover Sheet)**

**Updated Annulus Pumping Equipment List**

**Updated Annulus Pumping Equipment List**

Drawing/Specification	Spare Parts Component Identification
H-14-110981, DST ANNULUS PUMPING ANNULUS PUMP ASSEMBLY	700154
H-14-110982, ANNULUS PUMP DROPLEG	700174
H-14-110983, DST ANNULUS PUMPING JUMPER ASSEMBLY WT-J-[A-B-(C)]	700496
H-14-110985, DST ANNULUS PUMPING PUMP PIT TRANSITION SHIELD BOX ASSEMBLY	700190
H-14-110986, DST ANNULUS PUMPING PUMP PIT COVER PLATE	700185
H-14-110987, DST ANNULUS PUMPING PUMP PIT RISER EXTENSION	700180
H-14-110988, DST ANNULUS PUMPING PUMP PIT RISER ADAPTER	700175
H-14-110989, DST ANNULUS PUMPING ANNULUS PUMP PIT LINER BOX	700186
H-14-110990, DST ANNULUS PUMPING ANNULUS PUMP PIT SHIELD BOX DETAILS	700188
H-14-110991, DST ANNULUS PUMPING DROPLEG SHIELD BOX ASSEMBLY	700497
H-14-110992, DST ANNULUS PUMPING DROPLEG TRANSITION SHIELD BOX ASSEMBLY	700191
H-14-111000, DST ANNULUS PUMPING ANNULUS PUMP RACK POR651-WT-EES-001	700214
RPP-14859, SPECIFICATION FOR HOSE-IN-HOSE TRANSFER LINES	700526 – 30 Ft Length
RPP-14859, SPECIFICATION FOR HOSE-IN-HOSE TRANSFER LINES	700525 – 40 Ft Length
RPP-14859, SPECIFICATION FOR HOSE-IN-HOSE TRANSFER LINES	700498 – 60 Ft Length