

**UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION**

In the Matter of:

Diversified Scientific Services, Inc.)	Case No. NRC-2017-0156
DSSI)	Docket No. 11005323
)	License No. XW008/05
)	August 10, 2017
)	

**PETITIONER'S APPENDIX OF MEMBERSHIP DECLARATIONS
IN SUPPORT OF PETITION FOR LEAVE TO INTERVENE AGAINST
DIVERSIFIED SCIENTIFIC SERVICES, INC. SPECIFIC EXPORT LICENSE
AMENDMENTS/RENEWAL AND REQUEST FOR ADJUDICATORY HEARING**

This appendix contains four individual declarations signed by members of the Petitioners, Nuclear Information and Resource Service, Tennessee Environmental Council and Don't Waste Michigan.

DECLARATION OF LYNDA SCHNEEKLOTH

I, Lynda H. Schneekloth, hereby make the following statements under the penalty of perjury:

- 1) I am an adult citizen of the United States, am not under disability, and make the following statements voluntarily.
- 2) My residence address is 601 W. Ferry St., Buffalo, NY 14222. I live near the Peace Bridge in Buffalo, NY along the likely route of Canadian nuclear waste/material being imported and exported to and from PermaFix nuclear waste processing facilities including DSSI. The Peace Bridge spans the confluence of Lake Erie and the Niagara River. The Peace Bridge and I-190 are within 1.5 miles from my home. The water that I drink (as well as other residents of Buffalo and downstream residents of other U.S. and Canadian communities) comes from Lake Erie. The water intake structure is located two miles southwest of the Peace Bridge, just before the Lake enters the Niagara River.
- 3) Like many others in this region, I frequently enjoy the parks adjacent to the Niagara River. More than once per week, I walk my dog along the upstream and downstream shores of the River. During the summer months, I kayak on the River on Grand Island, the Lake Erie shoreline along the Outer Harbor, and also in the Buffalo River, which empties into the Niagara River. In the past I've taken, and intend in the future to take, my grandchildren fishing at Broderick Park on Unity Island (formerly Squaw Island) just north of the Peace Bridge. I frequently take walks along the Bird Island pier that sits between the Niagara River and Black Rock Canal. I also patronize commercial establishments and the dog park along the Niagara River and at LaSalle Park. This is all in my neighborhood.
- 4) I understand that the Nuclear Regulatory Commission is approving a specific export license XW008/05 (Docket No. 11005323 and Docket ID NRC 2017-0156) for PermaFix DSSI to send radioactive material/waste back to Canada after sorting, processing, and disposition at DSSI in Tennessee (and possibly other processors), without affording the public details about the radioactive substances to be shipped and their comparable dangerousness. Since the import bringing the radioactive substances into the US is via a general license or licenses, I am concerned that these will pass through my community and neighborhood and that there could in the future be additional, unlimited or unrestricted such imports without future notice or details

about the actual content of the waste shipments. I further understand that the export license renewal being requested by DSSI PermaFix is such that radioactive waste that would require disposal at a licensed disposal facility can be returned to Canada.

- 5) Many truckloads of radioactive waste material could travel on American highways from and to Canada. Since the licenses are continually renewed, there is really no limit to the total number of nuclear shipments through or near my neighborhood. The Peace Bridge in Buffalo, NY is specifically in the DSSI export license documents as the border crossing for the shipments. It is also the crossing point for many other nuclear waste shipments into and out of the United States.
- 6) I am concerned that spills of this undetailed radioactive waste into the watercourses near my home could contaminate area waters. Traffic backups on the approaches to the bridges and the bridges themselves routinely occur, sometimes for hours, especially during the tourist season. According to the application documents, some of the shipments will have high concentrations, which I am concerned could expose people to radiation in traffic jams, unknowingly and without consent or benefit. Accidents involving fire could release radioactivity into the air and affect down-winders. Sabotage or a terrorist attack on a shipment could threaten, impair or damage my home and property, my recreational opportunities and even the public water supply on which I routinely rely.
- 7) I am concerned about the potential of being exposed to "routine" radiation emissions from the transport of these radioactive waste materials, since there is so little public information which describes them. DSSI has stated that some tritium and fission products could be present in the waste. I am greatly concerned that I could be close enough to I-90, or driving on I-90, to be inadvertently exposed to potentially significant penetrating radiation from the gamma-emitting radionuclides from a slowed or stopped truck carrying the waste. The chance of being exposed to radiation emanating from radioactive waste material in truck beds without protective shielding or to residual contamination on the outside of shipping containers is of personal concern. Particularly if the shipments contain any liquid waste, a leak released during transport can travel through soil, water and air quickly.

8) I understand that the purpose of DSSI's export license request is to establish official NRC permission for the return to Canada of wastes which are radioactive enough to require special storage/disposal equivalent to the disposition of low-level radioactive waste in the United States. And the amount of waste that could be shipped is up to the full amount of radioactivity that DSSI is licensed to possess. It appears that the same border crossings used for import are also intended by DSSI to be the points for export, and that the material being returned may be in more concentrated form than the wastes which were transported into this country.

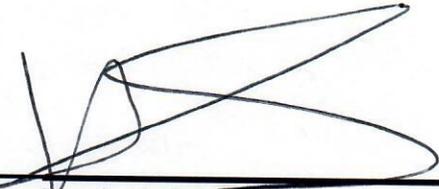
9) I am concerned by the unrestricted release that DSSI may carry out under its state license and whether some of the radioactive materials could be sorted and released for so called "beneficial reuse" getting into commercial recycling streams and find their way into industrial and consumer goods. As a person who from time to time purchases consumer goods such as automobiles, garden tools, hand tools, power tools, silverware, building supplies, and jewelry, I am concerned that I might inadvertently purchase one or more items containing radioactively-contaminated metals from the radioactive wastes permitted in and out of the US by NRC licenses like this one. Radioactive substances could get into equipment, metals, plastics, wood, paper, cloth, concrete, rubber, liquids or more and end up in items I use personally and regularly.

10) For the above reasons, DSSI's proposed shipments out of (and into) the United States of the radioactive waste/materials poses unacceptable risks to me, the environment and public health and to my personal health and safety. I hereby designate Nuclear Information and Resource Service, a nonprofit public interest organization in Takoma Park, Maryland of which I am a member, to represent my interests in petition to intervene against the amendment and renewal of the DSSI export license and radioactive waste shipments. I request that NIRS be accorded standing to proceed on my behalf. My interests will not be adequately represented unless NIRS is allowed to participate as a full party in this proceeding on my behalf.

Further, Declarant saith naught.

Date

August 10, 2017


Lynda H. Schneekloth

DECLARATION OF ELIZABETH ZIMMER-LLOYD

I, Elizabeth Zimmer-Lloyd, hereby make the following statements under the penalty of perjury:

1) I am an adult citizen of the United States, am not under disability, and make the following statements voluntarily.

2) My residence address is 1631 Wells St., Port Huron, Michigan.

3) I understand that the Nuclear Regulatory Commission is conferring upon Diversified Scientific Services, Inc., DSSI, a general export license which would allow radioactive and mixed radioactive hazardous waste to be exported to Canada from the United States primarily Tennessee after being sorted and processed mainly by incineration or heat treatment in their industrial boiler. I am concerned that we do not know the content and the amount but that it could be as much as the whole amount of radioactivity that DSSI is licensed to possess and highly concentrated. Since the import is via generic license(s), I am concerned that the public is not being properly informed of what wastes/materials will be exported under DSSI's specific license XW008/05 (Docket No. 11005323 and Docket ID NRC 2017-0156), and that there could be unlimited exports all without notice or details about the actual content of the waste shipments. I understand that DSSI seeks renewal of its specific export license for the return to Canada of wastes which are radioactive enough to require disposal at or equivalent to a licensed radioactive waste disposal site in the United States and that the waste could be highly concentrated, possibly because it is ash from burning larger volumes of radioactive and hazardous material. DSSI specifies Port Huron as one of the border crossings it will use to export the radioactive waste to Canada.

4) DSSI has listed the international border crossing over the Blue Water Bridge at Port Huron, Michigan as one of crossings between Canada and the United States. I live 2.5 miles from the Blue Water Bridge (east of me), less than 1 mile from I-69 (north of me) that goes west from the Blue Water Bridge and about 2 miles from the I-69/I-94 interchange (west of me), so basically I am surrounded by proposed routes these shipments may take.

5) With the exception of crossing the Blue Water Bridge, which I do, I travel on or near these routes almost daily. I travel on I-69 to visit friends and travel to shop, and on I-94 and I-75 for the same reasons. I live less than 2 miles from the St. Clair River and 2.5 miles from Lake Huron. I have lived, worked and recreated along these routes and waterways, my entire life, raised 6 children here and now have 20 grandchildren, who also live here. I frequent downtown Port Huron (on the St. Clair River, less than a mile from the route) to shop, recreate, and attend civic and organizational meetings at least 10 times a month, often at our St. Clair County Administration building, 200 Grand River, Port Huron (½ block from the river & less than a mile from the Blue Water Bridge). I attend many events at the St. Clair County Community College, 311 Erie St, Port Huron and the McMorrin Place, 701 McMorrin Blvd. in Port Huron. (Less than a mile from the routes). I swim, boat, fish (in the St. Clair River and Lake Huron). I walk, bike and hike near these routes. I shop at the Farmers' market on the banks of St. Clair River, less than a

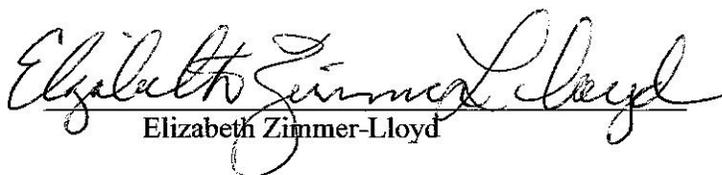
mile from the Blue Water bridge, often twice a week, and right next to it, the Maritime Center, 51 Water St. Port Huron, during the summer.

6) Given the information I've gained from experts familiar with radioactive wastes, I believe transporting these dangerous and unstable materials poses a clear and present danger to me, my family, public health and the environment, along these routes. The thought of being stuck in traffic next to one of these transports (particularly with my grandchildren in our car), causes me great concern for our health and safety. Multiple transports mean possibly multiple exposures. Radiation has a cumulative effect on people. Routine shipments on one route increase the chances of accidents and releases on those routes. Considering the risk they pose for potential attack or sabotage, it's too much to risk. There has been no public outreach or attempts to contact the public (to my knowledge), nor public health or environmental impact studies done. If there is an accident, the potential for contamination could be great, for the public, the environment and emergency response personnel. Therefore, I adamantly oppose these transports, and I do not believe that the Canadian government, the U.S. government, or private industry has the right to make the decision to risk our public health, the environment, or the Great Lakes Basin.

7) I hereby designate Don't Waste Michigan and Nuclear Information and Resource Service, based in Takoma Park Maryland, organizations to which I also belong, to represent my interests in a petition to intervene against the DSSI export license amendments and renewal and radioactive waste shipments. I request that Don't Waste Michigan and NIRS be accorded standing to proceed on my behalf. My interests will not be adequately represented unless Don't Waste Michigan and/or NIRS are allowed to participate as a full party in this proceeding on my behalf.

8) Further, Declarant saith naught.

August 10, 2017
DATE


Elizabeth Zimmer-Lloyd

DECLARATION OF Daniel Stephenson

I, Daniel Stephenson hereby make the following statements under the penalty of perjury:

- 1) I am an adult citizen of the United States, am not under disability, and make the following statements voluntarily.
- 2) My residence address is 145 Cedar Grove Church Rd, Kingston TN 37763.
- 3) I understand that the Nuclear Regulatory Commission has been asked to permit DSSI, Diversified Scientific Services, Inc., one of PermaFix's subsidiaries, to amend and renew their export license XW008/05 (Docket No. 11005323 and Docket ID NRC 2017-0156) to send processed radioactive waste back to Canada from which it came after burning and processing it at DSSI. Hundreds of tons of radioactive waste could be exported to Canada, and since the export license justifies "general" licenses for import, we don't really know how much radioactive material/waste will be imported, transported around the United States and arrive for processing at DSSI under the general licenses. I understand the after burning, the waste could be highly concentrated, increasing possible health dangers and that it could need more processing which could happen at other processors, so there could be more transport. I understand that there are other Canadian import licenses. Canadian radioactive waste is processed at PermaFix facilities in Washington and in Tennessee. There are PermaFix processors very near to where I live, work and recreate at Perma-Fix Diversified Scientific Services, Inc. (DSSI) 657 Gallaher Road, Kingston, TN 37763 and Perma-Fix Materials & Energy Corporation (M&EC) East Tennessee Technology Park, 2010 Highway 58, Oak Ridge TN 37830.
- 4) I and my family live right in Kingston, very close to DSSI. We are also within 10 miles downstream of the East Tennessee Technology Park. My mother, father and I drive near DSSI daily and through ETTP near M&EC daily to work in Oak Ridge. I am concerned that the transport, handling, processing and release of this radioactive material/waste create risks to me and others and to the safety of our water, soil, air and food. I am concerned about routine exposures from processing as well as accidents and about multiple exposures from several facilities and from both radioactive and hazardous components of the materials and wastes being transported and processed.
- 5) I understand that license allows some of the waste is to be returned (exported) to Canada. This creates more risks of exposure to radiation during transport and increases the opportunity for accidents which would release the waste and radioactive materials to the environment.
- 6) Any spill of radioactive and mixed solid, liquid, ash or other form of waste or material could cause significant health and environmental risks, a costly clean up and damage Kingston's efforts to shed its image as a city contaminated by coal ash and Oak

Ridge's image as a legacy of nuclear weapons development and production. If there is any liquid waste a leak released during transport or at the processing site can travel through soil and water and contaminate air quickly. A transport accident or fire could release large amounts of radioactivity and mixed waste. With no safe level, I am concerned that inhaling and ingesting man-made radioactivity increases my and my family, friends and colleagues risk for cancer and other health damage.

- 7) In Oak Ridge millions of dollars have been spent to clean up radioactive waste dumped helter-skelter during the time nuclear weapons were being devised. We need to be sure that there will be no new contribution to our radioactive waste woes, which are ongoing as the Y-12 clean up continues. There is no agreement between the Department of Energy, the Environmental Protection Agency and the Tennessee Department of Environment and Conservation on an expansion or additional location for a radioactive waste dump site to accommodate the remaining waste that will be produced as the Y-12 cleanup proceeds.
- 8) Because Tennessee allows radioactive materials into landfills which originally are designed and permitted only for household garbage, I am concerned that some of the radioactive waste will be transported to and remain in Anderson County at the Waste Management Chestnut Ridge landfill which has permission to accept radioactive waste. More radioactive waste may mix with other nasty wastes with unknown consequences. The leachate from this landfill may carry radioactive particles and I am concerned that this possible release to the environment has not been analyzed and prevented. I am concerned that our limited landfill space at Anderson county Chestnut Ridge landfill will be exhausted sooner if we bring in this waste from Canada and US nuclear industry waste and potential future wastes from around the world.
- 9) I am concerned about the release of radioactive metals and other materials into landfills (as previously stated) and into tools, equipment and other supposedly cleaned items that may be reused (so-called 'beneficial reuse') and into recycling streams (metal, aluminum, plastic, asphalt, wood, and others) that could be used to make items we contact daily, building supplies, roads and other destinations. I am concerned being about additional radiation about the synergistic effects with other pollutants and stressors in my environment. I am concerned that release of the even slightly radioactively contaminated materials into commerce could result everyday items made from radioactive metal, plastics, wood, paper, cloth, concrete, rubber, liquids or other constituents giving low, slow, continuous doses to me and my friends and family.
- 10) I have asked the Tennessee Environmental Council and the Nuclear Information and Resource Service to intervene in the proceeding before the Nuclear Regulatory Commission so that my concerns and opposition to allowing the importation of radioactive waste may be heard and that the NRC refuse to allow this large amount of radioactive waste to be brought to Oak Ridge Tennessee.

- 11) There has been no Environmental Impact Statement prepared which should lay out the proposed activity, both transport and processing and explain the risk to our human environment. It seems to me that the transport proposal poses unacceptable risks to the environment and public health and to my personal health and safety, and that of my family. Bringing in radioactive substances from Canada adds unnecessarily to the radioactive and toxic burden our region already has. Moreover, I am concerned that there could be a stigma or actual decline in the value of the real estate I own if shipments pass through the area in which I live.
- 12) I hereby designate the Tennessee Environmental Council (the Council) [<http://tectn.org/>] and the Nuclear Information and Resource Service (NIRS) [<https://www.nirs.org/>] as my representatives in proceeding before the Nuclear Regulatory Commission. My interests will not be adequately represented unless the Council and NIRS are allowed to participate as a full party in this proceeding on my behalf.

AUGUST 9, 2017

Date



Daniel Stephenson

DECLARATION OF David Collins Wasilko

I, David Collins Wasilko hereby make the following statements under the penalty of perjury:

- 1) I am an adult citizen of the United States, am not under disability, and make the following statements voluntarily.
- 2) My residence address is 2433 E 5th Ave, Knoxville, TN 37917. I also reside at 981 Hamilton Lane, Kingston, TN 37763 during the summer.
- 3) I understand that the Nuclear Regulatory Commission is considering amending and renewing Perma-Fix's subsidiary Diversified Scientific Services, Inc. (DSSI)'s export license via application XW008/05, Docket No. 11005323; Docket ID NRC-2017-0156. It would specifically allow untold amounts radioactive waste including tritium, and fission products, possibly highly concentrated with radioactivity and other contaminants to be shipped from DSSI in Kingston, TN, after burning, heat treating and or other processing at DSSI, back to Canada.
- 4) The approval of the export license will open the door to "general" license(s) to import radioactive and mixed hazardous waste from numerous Canadian facilities, transporting though several states and into my communities for processing at DSSI and maybe other processors.
- 5) I understand that there are other Canadian import and export licenses. Canadian radioactive waste is processed at DSSI and at PermaFix facilities in Washington and in Tennessee with the possibility of transferring among them and possibly other processors. There are 2 PermaFix processors very near to where I live, work and recreate at Perma-Fix Diversified Scientific Services, Inc. (DSSI) 657 Gallaher Road, Kingston, TN 37763 and Perma-Fix Materials & Energy Corporation (M&EC) East Tennessee Technology Park, 2010 Highway 58, Oak Ridge TN 37830. I am concerned about the additional burden of the Canadian waste in addition to all the radioactive and mixed waste at and released from DSSI and the disproportionate number of nuclear and hazardous materials and wastes and facilities already in the area causing multiple exposures from DSSI and other sources resulting in synergistic risks.
- 6) I am working in Oak Ridge this summer as an engineering intern. I farm and garden at my parent's home at 981 Hamilton Lane, Kingston TN 37763, which is 9 miles by car from M&EC. I drive by DSSI every day and live within 2 miles of DSSI, practically on the same road. I grew up in Oak Ridge and still enjoy running on the greenways and kayaking the rivers and lakes. My grandparents live in Kingston, very close to DSSI. My parents live in Oak Ridge, a few miles away. I am concerned that the transport, handling, processing and release of this radioactive and mixed waste and materials create risks to me and others and to the safety of our water and air and food chain

- 7) I understand that some of the waste that is to be returned (exported) to Canada could have high concentrations of radioactivity and other contaminants. This creates greater risks of exposure during transport and increases the potential consequences of accidents which could release the waste and radioactive materials to the environment. I am concerned about inhaling, ingesting and being exposed to the radioactive and mixed wastes whether or not there is an accident but especially if there is.
- 8) Unknown or unreported amounts of radioactive waste will be shipped in and out of Kingston probably by truck. Any spill of solid, liquid, oil, ash or other form of radioactive waste or material could cause high exposures and risks, a costly clean up and damage Kingston's efforts to shed its image as the site of one of the nation's largest coal ash spills and Oak Ridge's efforts to shed its image as a city threatened by radiation as a legacy of nuclear weapons development and production. If there is any liquid waste a leak released during transport or at the processing site can travel through soil, water and air quickly.
- 9) In Oak Ridge millions of dollars have been spent to clean up radioactive waste dumped helter-skelter during the time nuclear weapons were being devised. We need to be sure that there will be no new contribution to our radioactive waste woes, which are ongoing as the Y-12 clean up continues. There is no agreement between the Department of Energy, the Environmental Protection Agency and the Tennessee Department of Environment and Conservation on an expansion or additional location for a radioactive waste dump site to accommodate the remaining waste that will be produced as the Y-12 cleanup is proceed.
- 10) Because DSSI is allowed to "decontaminate and survey for unrestricted release" and Tennessee allows radioactive materials into landfills which originally are designed and permitted only for household garbage I am concerned that some of the radioactive waste will be transported to and remain in Anderson County at the Waste Management Chestnut Ridge landfill which has permission to accept radioactive waste. More radioactive waste may mix with other nasty wastes with unknown consequences. The leachate from this landfill may carry radioactive particles and I am concerned that this possible release to the environment has not been analyzed and prevented. I am concerned that our limited landfill space at Anderson county Chestnut Ridge landfill will be exhausted sooner if we bring in this waste from Canada and US nuclear industry waste and potential future wastes from around the world.
- 11) I am concerned about the release of radioactive and mixed metals and other materials into landfills (as previously stated) and into tools, equipment and other supposedly cleaned items that may be reused (so-called 'beneficial reuse') and into recycling streams (metal, aluminum, plastic, asphalt, and others) that could be used to make items we contact daily, building supplies, roads and other destinations. I am concerned being about additional radiation, about the synergistic effects with other pollutants and stressors in my environment. I am concerned that release of the even slightly radioactively contaminated materials into commerce could result everyday items made from radioactive metal, plastics, wood, paper, cloth, concrete, rubber, liquids or other

constituents giving low, slow, continuous doses to me and my friends and family.

- 12) There has been no Environmental Impact Statement prepared which should lay out the proposed activity, both transport and processing and explain the risk to our human environment and consider the cumulative effects of continual, multiple, additive and synergistic effects of radiation from processing and release/reuse and transport of the radioactive waste/material. It seems to me that the transport proposal poses unacceptable risks to the environment and public health and to my personal health and safety, and that of my family. Moreover, I am concerned that there could be a stigma or actual decline in the value of the real estate I own if shipments pass through the area in which I live.
- 13) I have asked the Tennessee Environmental Council and the Nuclear Information and Resource Service to intervene in the proceeding before the Nuclear Regulatory Commission so that my concerns and opposition to allowing the importation and export of radioactive waste may be heard and that the NRC refuse to allow this large amount of radioactive waste to be brought in and out of Oak Ridge and Kingston, Tennessee.
- 14) I hereby designate the Tennessee Environmental Council (the Council) [<http://tectn.org/>] and Nuclear Information and Resource Service (NIRS) [<https://www.nirs.org/>] as my representatives in proceeding before the Nuclear Regulatory Commission. My interests will not be adequately represented unless the Council and NIRS are allowed to participate as a full party in this proceeding on my behalf.

Date: August 9, 2017

A handwritten signature in black ink, appearing to read "David Wasilko", is written over a horizontal line.

David Collins Wasilko