Gegg, Diana

CAUSAL RELATIONSHIP

Psychologist

EXPERT TESTIMONY

Scope of expertise

Psychologist diagnoses of certain mental health conditions not listed in DSM-IV were within the psychologists' scope of practice and were valid diagnoses of the worker's conditions caused by the exposure at work.In re Diana Gegg, BIIA Dec., 08 16647 (2010)

Scroll down for order.

BEFORE THE BOARD OF INDUSTRIAL INSURANCE APPEALS STATE OF WASHINGTON

IN RE:	DIANA R. GEGG) DOCKET NO.	08 16647
)	
CLAIM NO. AG-35787) DECISION AN	ID ORDER

APPEARANCES:

Claimant, Diana R. Gegg, by Flynn, Merriman, McKennon, P.S., per Robert D. Merriman

Employer, Contractors Equipment Maintenance Co., Inc., by Building Industry Association of Washington

Interested Observer, Stephen A. Teller, None

Department of Labor and Industries, by The Office of the Attorney General, per Annika M. Scharosch, Assistant

The claimant, Diana R. Gegg, filed an appeal with the Board of Industrial Insurance Appeals on July 17, 2008, from an order of the Department of Labor and Industries dated July 3, 2008. In this order, the Department affirmed a November 6, 2007 order in which it rejected the claim for industrial injury or occupational disease. The Department order is **REVERSED AND REMANDED**.

DECISION

Pursuant to RCW 51.52.104 and RCW 51.52.106, this matter is before the Board for review and decision on a timely Petition for Review filed by the Department, to a Proposed Decision and Order issued on January 8, 2010, in which the industrial appeals judge reversed the July 3, 2008 Department order.

The Board has reviewed the evidentiary rulings in the record of proceedings and finds no prejudicial error was committed. These rulings are affirmed.

Our industrial appeals judge remanded the claim to the Department with directions to allow the claim for a July 27, 2007 industrial injury. Ms. Gegg presented evidence that she developed five conditions proximately caused by her industrial injury. Nonetheless, our industrial appeals judge concluded we only have the jurisdiction to determine that one of these conditions was caused by her injury. He remanded her claim to the Department so it could make further determinations regarding the conditions that should be allowed under the claim. We have granted review solely to fully state all five diagnoses of the conditions proximately caused by Ms. Gegg's industrial injury.

We strongly agree with our industrial appeals judge's decision to allow this claim. We believe we have the jurisdiction to determine all of Ms. Gegg's industrially related conditions. Based on the evidence in our record, we have concluded that all of the five diagnoses made by Raymond M. Singer, Ph.D., are correct and we have ordered the Department to allow the claim for these conditions.

The evidence in our record strongly supports a conclusion that Ms. Gegg developed organic brain damage and other conditions due to exposure to toxic chemicals that leaked from one of the storage tanks on the Hanford reservation. The Proposed Decision and Order contains a thorough and accurate factual summary, so this decision only contains a summary of the salient facts relevant to our decision.

Prior to July 27, 2007, Ms. Gegg was a highly capable heavy equipment operator. She worked in this capacity from 1974 until August 2007. She had become a supervisor and was highly respected by the men she supervised. At that time, she was around 55 years old and was one of the most competent heavy equipment operators in the Tri-City area. She was in good health: even though she had been previously diagnosed with hypertension, she was taking medication that kept her cholesterol under control. She had no mental health or cognitive impairments.

On July 27, 2007, workers at Hanford were engaged in an ongoing project of transferring the contents of single shell tanks holding toxic chemicals in the "tank farm" to double shell tanks. At 2:00 a.m., Cheryl A. Edden, a nuclear chemical operator, went to check on a malfunctioning pump being used to transfer the contents of Tank S-102. The precise contents of Tank S-102 are unknown, but it is undisputed that it contained 1,200 to 1,400 toxic chemicals. The tank definitely contained toxic solvents, heavy metals, and radioactive waste. Mary C. DeVany, the industrial hygienist who testified for Ms. Gegg, stated it contained "[s]ome of the most dangerous waste material" anywhere in the United States. DeVany Dep. at 38. Ms. Edden discovered the contents of Tank S-102 had leaked onto the ground: she noted a dark area on the ground when she walked into a "wall of vapor." The Geiger counter on her protective gear went off the charts. The leak clearly contained radioactive emitters.

Accordingly, by 2:30 a.m. on July 27, 2007, it was obvious the contents of Tank S-102 had spilled onto the ground right by the tank and vaporized into the air. This was a major spill: 85 to 115 gallons of high-level radioactive and chemical waste spilled, covering a 200 square foot area. Additionally, fumes and gases that had been contained in the tank were released into the air.

However, no one immediately sounded any alarms, covered the spill, conducted any sampling of the spilled liquid contents, or tested the air space near the spill.

On July 27, 2007, Ms. Gegg was employed bulldozing land to prepare well pads on which additional tanks would be placed. She arrived at work at 6:00 a.m., about one-half mile away from her jobsite. She drove her bulldozer to the jobsite and arrived there around 6:30 a.m. She worked clearing three pads right outside the southern fence surrounding the tank farm until 10:30 a.m. One of the pads was approximately 600 yards from Tank S-102, and another was only slightly further away. There were light breezes that morning, as well as gusts of wind coming from the direction of Tank S-102. Ms. Gegg reported being covered in dirt as she bulldozed, but also reported smelling strong chemical odors as she worked.

At 10:30 a.m., an alarm finally sounded. Ms. Gegg and her construction company coworkers were told to take cover. They were instructed to remain in their vehicles, with the windows shut and the air conditioning off, at a location right outside the eastern boundary of the tank farm. The workers were directed to remain in their vehicles until approximately 1:15 p.m. In other words, they were supposed to remain in small enclosed spaces in the direct sun on July 27, 2007, without opening their windows or using ventilation, for almost three hours. Ms. Gegg took cover in the cab of a truck driven by Woodruff R. Stanley, Jr.: they both smelled strong odors of ammonia and other chemical fumes. They had to open their window during this three-hour period because it was hot. Expert witnesses confirmed the odors Ms. Gegg and her coworker smelled were consistent with toxic chemicals contained in Tank S-102.

Around 1:15 p.m., Ms. Gegg was allowed to leave and go into a building just outside Hanford's east entrance. Soon afterward, she was transported to a medical clinic approximately 45 minutes away. She remained in the clinic until 5:00 or 6:00 p.m. By then, she began feeling serious symptoms consistent with chemical exposure, including severe nausea, abdominal pain, dizziness, and disorientation. Blood tests taken at the clinic showed Ms. Gegg had elevated liver enzymes, consistent with an exposure to toxic chemicals, according to Ms. DeVany. By the evening, Ms. Gegg had developed a severe headache, which lasted for several days. She was unable to work for more than 2 half-days following the spill, because of her headache and "flu-like" symptoms. As time passed, she has developed more serious chronic cognitive and mental health symptoms. Dr. Singer testified her symptoms are consistent with organic brain damage due to exposure to toxic substances. Ms. Gegg's life has been upended since July 27, 2007. She has

been unable to work or pursue numerous hobbies she previously enjoyed, and she has major emotional problems that impair her relationships with her family and friends.

The Department's case relies primarily on a flawed study conducted by CH2M, which concluded that neither the fumes nor the chemicals spilled out of Tank S-102 could have reached Ms. Gegg. There were numerous flaws in this study. For example, the study assumes there was no wind on July 27, 2007, when weather data clearly showed it was breezy, with wind gusts. The study was based on very limited sampling. Only two toxic chemicals were tested in air sampling, which was conducted on the afternoon of July 27, 2007. No testing of the liquid contents of the spill was done. Soil testing of the contaminated area was not conducted until November 2007, approximately four months later. Again, that testing was limited: only soil within 10 meters of the spill was tested. We agree with our industrial appeals judge's determination that Ms. DeVany's testimony effectively undermined the testimony of the Department's experts, because they relied on the flawed CH2M study.

We found the testimony of Ms. Gegg's expert witnesses very persuasive. Ms. DeVany and Dr. Singer are both very well-qualified, and there is a credible factual basis for their opinions. In short, Ms. Gegg has major cognitive and emotional impairments, consistent with exposure to toxic chemicals. Ms. Gegg was clearly exposed to fumes stemming from the leak at Tank S-102, because she and her coworkers could smell the fumes. She also was possibly exposed to windborne dust to which chemicals had adhered. She developed symptoms consistent with exposure to toxic chemicals by the afternoon of July 27, 2007. There is simply no other causative agent other than the chemical spill that could account for her symptoms. We do not believe she simultaneously developed unrelated mental health disorders (anxiety and panic attacks) starting on July 27, 2007, as suggested by Dennis Stumpp, M.D., the Department's medical witness. Although we cannot specify the toxins which caused Ms. Gegg's symptoms, Tank S-102 definitely contained dangerous chemicals and radioactive waste materials. There is credible expert testimony tying Ms. Gegg's mental health and cognitive impairments to her exposure to chemicals released from Tank S-102. Accordingly, her claim should be allowed, even though we cannot specify which toxins caused Ms. Gegg's symptoms. Intalco Aluminum Corp. v. Department of Labor & Indus., 66 Wn. App. 644 (1992), review denied, 120 Wn.2d. 1031 (1993).

The only remaining question we must address involves our authority to determine which conditions should be allowed in our order. Our judge believed we only had authority to adopt one of

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the five diagnoses made by Dr. Singer of Ms. Gegg's industrially related conditions. We believe we have the authority to adopt all five of his diagnoses.

In an appeal from an order rejecting the claim, we clearly have the jurisdiction to determine which conditions were proximately caused by the industrial injury. *In re Darlene Ross*, BIIA Dec., 88 4379 (1990). Both parties presented testimony regarding the correct diagnoses and causes of Ms. Gegg's mental health and cognitive problems. We therefore not only have the authority, but also the duty, to make a complete determination of which conditions were industrially related. RCW 51.52.104 and RCW 51.52.106 require our decisions to contain findings and conclusions regarding each contested issue.

We have concluded that all five of Dr. Singer's diagnoses for Ms. Gegg's industrially related conditions are appropriate. Accordingly, we order the Department to allow all these conditions in this claim. Our industrial appeals judge limited allowance to a condition diagnosed as substance-induced dementia. He did not include conditions that he believed were not listed in the DSM-IV or because they were, in fact, not listed in the DSM-IV. There are two reasons this is incorrect. First, two of the diagnoses made by Dr. Singer are found in DSM-IV. Dr. Singer also diagnosed Ms. Gegg as having developed an avoidant personality disorder due to her chemical exposure, and this is a diagnosis found in DSM-IV. Our record confirms that Dr. Singer's remaining three diagnoses of Ms. Gegg's industrially related conditions are also valid. Neuropsychologists such as Dr. Singer are commonly used to diagnose and treat brain disorders stemming from either toxic exposure or a brain injury. DSM-IV contains diagnoses used by many types of mental health professionals, but it is published by the American Psychiatric Association. As such, it contains diagnoses originating from the work of psychiatrists, and may not contain all the diagnoses appropriate for individuals exposed to toxic chemicals. Dr. Singer testified Ms. Gegg had also developed toxic encephalopathy, an organic brain dysfunction, and neurotoxicity syndrome due to her chemical exposure. Kenneth R. Still, Ph.D., a toxicologist and industrial hygienist who testified for the Department, was familiar with all three of these neuropsychological diagnoses. Dr. Singer and Dr. Still defined these conditions similarly in their testimony. Neurotoxicity syndrome involves harm to the nervous system from chemical exposure; organic brain syndrome involves dysfunction of neuropsychological functions due to brain damage; and toxic encephalopathy involves brain changes caused by a toxin. These diagnoses are therefore clearly accepted and used by neuropsychologists and toxicologists. Dr. Still did not dispute the general validity of these diagnoses, he disputed their appropriateness in this particular case. As stated above, we found

Dr. Singer's testimony persuasive and therefore believe all five of his diagnoses accurately describe Ms. Gegg's industrially related conditions.

We have therefore amended Finding of Fact No. 7 and Conclusion of Law No. 3 in the Proposed Decision and Order. We also have corrected Finding of Fact No. 4 to clarify when and where Ms. Gegg first developed symptoms consistent with her toxic exposure. With these corrections, we adopt the remaining findings and conclusions in the Proposed Decision and Order as our own.

FINDINGS OF FACT

1. The claimant, Diana R. Gegg, filed an Application for Benefits with the Department of Labor and Industries on October 11, 2007, in which she alleged she sustained an industrial injury on July 27, 2007, during the course of her employment with Contractors Equipment Maintenance Co., Inc.

On November 6, 2007, the Department issued an order in which it rejected the claim as neither an industrial injury nor an occupational disease. On January 2, 2008, Ms. Gegg appealed this order. On January 10, 2008, the Department issued an order in which it reassumed jurisdiction over the claim.

On July 3, 2008, the Department issued an order in which it affirmed its prior order of November 6, 2007. Ms. Gegg filed a Notice of Appeal from this order on July 17, 2008. On August 5, 2008, the Board granted the claimant's appeal under Docket No. 08 16647, and agreed to hear the appeal.

- 2. On July 27, 2007, Ms. Gegg was employed by Contractors Equipment Maintenance Co., Inc., as a heavy equipment operator. Her shift began at 6:00 a.m. Earlier that day, at approximately 2:00 a.m., a spill of chemical waste from a tank, No. S-102, containing nuclear waste product and toxic chemicals, had occurred near Ms. Gegg's work location. When she started her shift, and until a take cover alarm went off at 10:30 a.m., she was unaware of the spill.
- 3. On July 27, 2007, during her morning shift, Ms. Gegg was driving a bulldozer to move dirt. This machine did not have an enclosed cab. Ms. Gegg had no protective gear or clothing. The work was kicking up dust. Ms. Gegg was working downwind from the spill, as close as 600 yards from it. She noticed the smell of ammonia and chlorine.
- 4. At 10:30 a.m. on July 27, 2007, a take cover alarm went off. Ms. Gegg entered the closed cab truck of a coworker, Woodruff Stanley, remaining there until approximately 1:15 p.m. During this period, Ms. Gegg and Mr. Stanley had to open their windows occasionally to ventilate the cab and to talk to coworkers.

- 5. Ms. Gegg arrived at a medical clinic 45 minutes from the job site the afternoon of July 27, 2007. At that building, medical and radiation tests were performed. While there, Ms. Gegg experienced several symptoms, including disorientation, lower abdominal pain, severe nausea, right-sided tingling of the face and arm, a metallic taste in her mouth, mental fogginess, and dizziness.
- 6. The events surrounding the chemical spill of July 27, 2007, at Ms. Gegg's workplace, constitute a sudden and tangible happening of a traumatic nature that produced the immediate onset of several symptoms.
- 7. The industrial spill and Ms. Gegg's exposure to toxic chemicals on July 27, 2007, proximately caused her to develop conditions diagnosed as substance-induced persisting dementia, avoidant personality disorder, toxic encephalopathy, an organic brain dysfunction, and neurotoxicity syndrome.

CONCLUSIONS OF LAW

- 1. The Board of Industrial Insurance Appeals has jurisdiction over the parties to and the subject matter of this appeal.
- 2. On July 27, 2007, Ms. Gegg sustained an industrial injury, as defined by RCW 51.08.100.
- 3. The order of the Department of Labor and Industries dated July 3, 2008, is incorrect and is reversed. The claim is remanded to the Department with directions to allow Ms. Gegg's claim for an industrial injury occurring on July 27, 2007. The Department is ordered to allow the following conditions in this claim: substance-induced persisting dementia, avoidant personality disorder, toxic encephalopathy, an organic brain dysfunction, and neurotoxicity syndrome. The Department is thereupon ordered to take such further actions as are required by the law and the facts.

Dated: April 16, 2010.

BOARD OF INDUSTRIAL INSURANCE APPEALS

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/s/	
FRANK E. FENNERTY, JR.	Member
/s/	
LARRY DITTMAN	Member