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UNITED STATES DISTR	ICT COURT FOR THE
EASTERN DISTRICT	OF WASHINGTON
HANFORD CHALLENGE, and UNITED ASSOCIATION OF	NO. 4:15-cv-05086-TOR
PLUMBERS AND STEAMFITTERS	(
OF WASHINGTON,	(consolidated with NO. 4:15-cv-05087-TOR)
Plaintiffs,	CITIZEN PLAINTIFFS' MOTION FOR PRELIMINARY
<b>v.</b>	INJUNCTION
· ·	Note on Motion Calendar: 8/22/16
DEPARTMENT OF ENERGY, and	Without Oral Argument
PROTECTIONS SOLUTIONS, LLC,	
Defendants.	
CITIZEN PLAINTIFFS' MOTION FOR	
PRELIMINARY INJUNCTION	TERRELL MARSHALL LAW GROUP PLLC 936 North 34th Street, Suite 300 Seattle, Washington 98103-8869 TEL. 206.816 6603 • FAX 206.319 5450
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#### I. INTRODUCTION

Hanford workers are responsible for monitoring and cleaning up the hazardous waste left behind by our nation's nuclear weapons program. Their mission is to ensure that millions of gallons of highly toxic waste stored in 177 underground tanks are handled as safely and responsibly as possible. It is important work. It is also dangerous work. For decades, Hanford workers have been exposed to releases of toxic chemicals from the waste storage tanks into the atmosphere. Despite hundreds of worker exposures and numerous cases of severe illness as a result of exposures to these toxic vapors, the Department of Energy (DOE) and its contractors managing the tank farms have failed to take reasonable steps to protect workers from harmful exposures.

Hanford Challenge and the United Association of Plumbers and Steamfitters Local 598 (Citizen Plaintiffs) move for a preliminary injunction because their members should not have to choose between their jobs and their health. Without an order from this Court, they will be forced to make that choice. Since this case was filed, close to 100 Hanford workers have been exposed to chemical vapors and sent for on-site medical evaluation. Many of those workers have suffered short-term injuries such as breathing difficulties and nose bleeds. Some tank farm workers have suffered long-term, debilitating lung and brain damage. A preliminary injunction is necessary to protect the workers from the

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1	imminent and substantial dangers caused by vapor releases at Hanford and is
2	supported by accepted industrial hygiene standards.
3	To reduce duplicate briefing, Citizen Plaintiffs incorporate and adopt the
4	State's motion for a preliminary injunction (ECF No. 48). Citizen Plaintiffs focus
5	on how and why workers have been exposed to highly toxic vapor releases in the
6	Hanford tank farms, how those releases have created an imminent and substantial
7	endangerment under RCRA, and why preliminary relief is appropriate.
8	In agreement with the State, Citizen Plaintiffs request that the Court order
9	WRPS and DOE to take several readily available short-term actions to
10	significantly reduce worker exposure to chemicals released from Hanford's waste
11	tanks during the pendency of this case. WRPS can and should increase the
12	mandatory use of supplied air, expand the vapor control zones, and improve its
13	monitoring of tank vapors. These measures are necessary to protect workers
14	during the pendency of this suit and are described more fully below.
15	II. FACTS
16	A. The Dangers Associated with Chemical Vapors Released from Hanford's Hazardous Waste Tanks Are Well Documented
17	Hamoru's Hazardous waste Tanks Are wen Documented
18	<sup>1</sup> Supplied air is protective equipment, such as Self-Contained Breathing
19	Supplied air is protective equipment, such as Sen-Contained Breathing
20	Apparatus ("SCBA"), that allows workers to avoid breathing contaminated air.
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Defendant U.S. Department of Energy (DOE) owns the tank farms at the
Hanford site, comprising 177 underground tanks containing 56 million gallons of
waste. ECF No. 23 (DOE Answer to Citizen Plaintiffs' Complaint) ¶¶ 22, 42;
ECF No. 24 (WRPS Answer to Citizen Plaintiffs' Complaint) ¶ 42; Declaration
of Bernard Mizula in Support of Citizen Plaintiffs' Motion for Preliminary
Injunction ("Mizula Decl.") at ¶ 4. Each "farm" of tanks is bounded by a chain
link fence (referred to as the "fence line" or tank farm boundary). Defendant
Washington River Protection Solutions ("WRPS") is DOE's prime contractor
managing cleanup at Hanford, including the treatment, storage and retrieval of
tank waste at the site. DOE Answer ¶ 43; WRPS Answer ¶ 24. Because older
single-shell tanks leak, DOE is transferring waste to double-shelled tanks. DOE
Answer ¶ 40; ECF No. 53 (Declaration of Bruce Miller in Support of State of
Washington's Motion for Preliminary Injunction ("Miller Decl.")), Ex. 6
(hereinafter "TVAT Report") at 21.2 Vapor releases are often associated with
waste transfer activities. Declaration of Dr. Tim K. Takaro in Support of Citizen
Plaintiffs' Motion for Preliminary Injunction ("Takaro Decl.") at ¶ 28.
Hanford's tanks contain solid and liquid wastes, as well as vapors and
gases that originate from those wastes. DOE and WRPS Answers ¶ 44. "The tank
<sup>2</sup> All citations to the TVAT Report are to page numbers of the report itself.
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waste generates vapors as heat and radiation break down chemical compounds."
Miller Decl., Ex. 8 (hereinafter "Implementation Plan") at 4. "In the double-shell
tanks (DSTs), some chemical vapors are exhausted with active ventilation, while
the single-shell tanks (SSTs) are normally passively ventilated." <i>Id.</i> ; see also
DOE and WRPS Answers ¶¶ 46-51. Vapors must be vented from the tanks to
prevent explosions. TVAT Report at 26.
The main source of vapor releases are tank headspace vapors, which may
contain over 1,500 chemicals. DOE Answer ¶ 47; WRPS Answer ¶47. Some of
those chemicals are hazardous to human health. DOE Answer ¶¶ 28, 44; WRPS
Answer ¶44. Between 2005 and 2014, DOE measured concentrations of
ammonia, mercury, furan, and N-Nitrosodimethylamine that exceeded
occupational exposure limits (OELs). Declaration of Meredith Crafton in support
of Citizen Plaintiffs' Motion for Preliminary Injunction ("Crafton Decl."), Ex. 16
EPA lists all of those chemicals as hazardous. 40 C.F.R. § 302.4. These chemicals
and others found in tank vapors are respiratory and neurologic toxicants. Takaro
Decl. ¶ 8; Table 1. After a worker was exposed to toxic chemical vapors in April
2016, WRPS measured exhaust stack readings that exceeded OELs. Crafton
Decl., Ex. 18 (Deposition of Thomas Fletcher ("Fletcher Dep.")) at 348–349. In
any event the OELs in use are not fully protective. Mizula Decl. at ¶ 22.
Worker exposures to toxic chemical vapors at Hanford have been the
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Crafton Decl., Ex. 18 (Fletcher Dep. at 252:15–25). The most recent official report is the Hanford Tank Vapor Assessment Report. Miller Decl., Ex. 6. WRPS commissioned the Savannah River National Laboratory to convene a panel of experts to evaluate WRPS' chemical vapors management and worker protection measures and write that report after "some 50 [WRPS] and other employees reported potential exposures to chemical vapors in and outside of the tank farms	subject of formal reports and recommendations for more than twenty years.
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	Of the issues facing the current IH [industrial hygiene]

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1	
2	<i>Id.</i> at 17.
3	B. Hanford Workers and Medical Doctors Confirm the Harm Caused by Tank Vapors
4	In addition to the TVAT and numerous other studies prepared for DOE and
5	its contractors, worker accounts of exposure and injury, coupled with diagnoses
6	from medical doctors establish that workers have been and continue to be harmed
7	in the tank farms.
8	is an instrument technician and a member of Hanford
9	Challenge. ECF No. 65 (" .") at ¶ 21. On August 14, 2015,
10	was working about twenty feet from the exhaust ventilation stack for a tank in the
11	Hanford tank farms when he was exposed to toxic vapors. <i>Id.</i> at ¶ 14. His work
12	plan did not require protective breathing equipment, so he was not wearing any.
13	Id. at ¶ 12. Twenty minutes after his co-worker smelled an odor,
14	started gushing blood. <i>Id.</i> at ¶ 14. While heading home from work that day, he
15	had difficulty breathing. <i>Id.</i> at $\P$ 15. The next day was admitted to the
16	hospital and diagnosed with pneumonitis of the lungs due to vapor exposure. <i>Id</i> .
17	at ¶ 16, Ex. 1 at 13. is now disabled and unable to work at Hanford. <i>Id</i> .
18	at ¶ 20. Like many exposed workers, exhibits both respiratory tract
19	and neurological complaints. Takaro Decl. ¶ 20
20	
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has worked as a Health Physics Technician for WRPS at
Hanford since 2008. ECF No. 60 ("Decl.") at ¶ 2. On August 31,
was exposed while working in the C tank farm during a
waste disturbing activity. <i>Id.</i> at $\P\P$ 6-7.
area so protective breathing equipment was not required and he was not wearing
any. <i>Id.</i> He smelled strong odors which took his breath away. <i>Id.</i> at $\P$ 8. Later that
day, he had trouble breathing. <i>Id.</i> at $\P$ 9. Since that exposure,
health has deteriorated dramatically. <i>Id.</i> at $\P$ 11.
mid-thirties, can no longer engage in activities he loves, like snowboarding and
hiking, and can only walk a few blocks before losing his breath. <i>Id.</i> ; Takaro Decl.
at ¶ 21. He has been unable to work since October 2015 because of his respiratory
illness. $\qquad$ at $\P$ 2.
is a millwright who is employed by WRPS and works in the
Hanford tank farms. ECF No. 66 (" .") at ¶ 2. On May 3, 2016, he
was working in the AP tank farm when an exposure event occurred in the nearby
AW tank farm. <i>Id.</i> at ¶ 9. smelled a strong chemical odor, but had no
immediate symptoms. <i>Id.</i> at $\P$ 10. The next morning when woke up,
he struggled to breathe and felt sharp pains like his lungs were "being ripped out
with hooks." <i>Id.</i> at $\P$ 11.
inflammation, found blood in his urine, and determined that the cause of these
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1	symptoms was occupational exposure to chemicals. <i>Id.</i> at ¶¶ 15–17.
2	condition has still not improved, and he never had any serious medical
3	issues before the exposure. <i>Id.</i> at $\P$ 19.
4	has worked as an industrial hygiene technician (IHT) at
5	Hanford for over 23 years. ECF No. 61 ("Decl.") at ¶2. He has
6	firsthand experience with the persistent chemical vapor issues at the site and the
7	inadequate monitoring that occurs. <i>Id.</i> at $\P\P$ 2-18. Hanford only monitors for a
8	few of the thousands of chemical vapor found in the tank headspaces. <i>Id.</i> at $\P\P$ 9,
9	18. For the few chemicals that are sampled, proper sampling procedures are often
10	not followed because IHTs are not properly trained. <i>Id.</i> at ¶¶ 10-15. IHTs often
11	arrive to take samples an hour or more after an exposure occurs. <i>Id.</i> at $\P$ 16.
12	Because vapors dissipate, this is far too late to capture accurate readings of the
13	vapors workers breathed during the exposure. <i>Id.</i> at ¶ 18; Mizula Decl. at ¶ 63.r.
14	As a result of his own exposures to vapors in the tank farms,
15	lost 50% of his kidney function and has impaired executive functioning.
16	Decl. at ¶¶ 21–22. Many of co-workers are also
17	battling serious medical problems after repeated exposure events. <i>Id.</i> at ¶ 18;
18	Takaro Decl. ¶¶ 17–26.
19	is a member of Hanford Challenge and has worked as a
20	Health Physics Technician at Hanford for 24 years. ECF No. 67 ("
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1	") at $\P$ 2 job was replacing filters in the exhaust systems in
2	the double shell tank farms, resulting in many vapor exposures. <i>Id.</i> at $\P\P$ 4–6.
3	stopped reporting vapor exposures she witnessed or experienced
4	because "there was nothing management would or could do about it." <i>Id.</i> at ¶ 6.
5	As a result of vapor exposures, has frequent nose bleeds and
6	respiratory problems. <i>Id.</i> at $\P\P$ 8–10.
7	is a member of both Hanford Challenge and a pipefitter with
8	Local 598 who has worked at Hanford for over 35 years. Declaration of
9	("Decl.") at $\P\P$ 3–4, 6–7. was exposed to vapors in 2014. <i>Id</i> .
10	at ¶ 10. IHTs did not sample the area until more than two hours later. $Id$ . at ¶ 11.
11	Even after a two-hour delay, IHTs found ammonia and N-nitrosodimethylamine
12	concentrations at the ventilator stack far higher than the OELs. <i>Id.</i> at ¶ 15.
13	suffered persistent throat irritation for six weeks after the exposure. $Id$ . at $\P$
14	14.
15	Dr. Tim K. Takaro, an occupational and environmental medicine specialist
16	who has studied illness related to Hanford tank waste since 1993, reviewed the
17	medical records of , and , and .
18	Takaro Decl. ¶¶ 17–26. is a 53 year-old nuclear chemical operator who
19	began working at Hanford in 1992 and has been diagnosed with occupational
20	asthma. <i>Id.</i> at ¶ 17. Additionally, has been diagnosed with chemical
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pneumonitis and neuro-cognitive deficits linked to his exposures at the Hanford
Tank Farms. <i>Id.</i> at ¶ 18.
worked as a highly skilled heavy equipment operator at
Hanford from 1974 until her work place injury in 2007. <i>Id.</i> at ¶ 25. Blood tests
taken at the medical clinic 45 minutes from the site showed elevated liver
enzymes, consistent with an exposure to toxic chemicals. <i>Id</i> . She had persistent
headaches and cognitive impairment and was subsequently diagnosed with
organic brain syndrome, toxic encephalopathy and neurotoxicity syndrome from
her exposures. <i>Id.</i> After a long fight, the Washington State Board of Industrial
Appeals found that the evidence in record "strongly supported a
conclusion that 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." <i>Id.</i> at ¶ 26.
The experiences of , , , , , , , , , , , .
, and , are not unique.
WRPS' records show that there were 206 recorded reports of odors, symptoms, or
vapor-related medical evaluations from January 2014 to July 12, 2016. Crafton
Decl., Exs. 1 and 2. Eighty-three of those reported exposures were outside tank
farm boundaries. Crafton Decl., Ex. 2.

1	C. Current Industrial Hygiene Practices at Hanford Do Not Adequately Protect Workers
2	WRPS's attempts to manage the hazards of tank vapor releases and to
3	protect workers have failed. According to WRPS' own records, in a one-week
4	period from April 28 to May 6, 2016, more than forty workers at the tank farms
5	were sent for medical evaluation for vapor exposures. Crafton Decl., Ex. 19
6	(Deposition of Robert Gregory ("Gregory Dep.") at 21–23); Crafton Decl., Ex.
7	11. DOE did not exercise its authority to require WRPS to do anything in
8	response to these exposures. Crafton Decl., Ex. 18 (Fletcher Dep. at 17–21, 64:7–
9	11). This failure is perhaps unsurprising because DOE's manager at Hanford,
10	Thomas Fletcher, says he
11	Crafton Decl., Ex. 18 (Fletcher Dep. at 256:22–24 and 233–
12	244) (
13	).
14	Although workers are breathing toxic chemicals, Defendants do not require
15	or facilitate use of personal protective equipment such as supplied air for all work
16	conducted in all areas of the tank farms. DOE Answer ¶ 62.
17	Crafton
18	Decl., Ex. 18 (Fletcher Dep. at 103-104). These zones have a minimum radius of
19	five feet and are bounded by ropes and signs. Crafton Decl., Ex. 17 (Deposition
20	of Kenneth Way ("Way Dep.") at 88–89, 99:4–21). Chemical vapors, however,
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1	are not contained by ropes and signs. Many workers have reported odors and
2	symptoms outside of vapor control zones. DOE Answer ¶ 66; Takaro Decl. at
3	¶ 13; Crafton Decl., Ex. 3.
4	WRPS establishes vapor control zones only in areas where its modeling
5	shows that a person could receive an exposure greater than 50% of the OEL.
6	Crafton Decl., Ex. 18 (Fletcher Dep. at 89:21–24); Crafton Decl., Ex. 17 (Way
7	Dep. at 198–199, 262). Dr. Robert S. Palermo, an Industrial Hygienist with
8	experience monitoring air quality at superfund sites, reviewed WRPS' model and
9	found it "incomplete" and of "little practical utility" in assessing how Hanford
10	workers are "impacted by actual chemical exposures on site." Declaration of Dr.
11	Robert S. Palermo in Support of Citizen Plaintiffs' Motion for Preliminary
12	Injunction ("Palermo Decl.") at ¶¶ 1–7, 14–15, 35. WRPS' modeling assesses
13	only five of the 1,200 chemicals in headspace vapors, uses a model not designed
14	to predict workplace exposures, does not verify modeled results by confirmatory
15	air sampling, fails to take account of the complex set of structures in the tank
16	farms, and underestimates exposure risks by failing to account for all sources of
17	toxic chemicals. Palermo Decl., ¶¶ 10–34. WRPS determines the areas of the
18	tank farms in which it requires use of supplied air based on these inadequate
19	models.

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Further, Dr. Takaro concluded that "even exposure below permissible
levels may be hazardous for workers with either previously injured respiratory
tract membranes or age related, genetic, or other susceptibility to the chemicals
the complex mix that characterizes tank vapors. Together these factors lead to the
ongoing health risk to tank farm workers." Takaro Decl. ¶ 14.
D. WRPS and DOE Minimize the Health Effects of Vapor Exposures and Have Not Implemented Key Recommendations from the TVAT Report
The TVAT Report found that "Management must acknowledge the health
risk associated with episodic releases of tank vapors." TVAT Report at 15.
Management has not done so. For example, in May 2016, Stacy Thursby,
WRPS's Vapor Program Manager, told workers there is no real issue with tank
vapors. ECF No. 64 ("Decl.") at ¶¶ 2, 15–19, ECF No. 64-1. Ms. Thursby
announced that no harmful levels of chemicals had been detected beyond 17 fee
from an open source, that WRPS was gathering data to prove that supplied air
was unnecessary, and that supplied air would only be required "for as long as th
lawsuit continues and politicians keep trying to make names for themselves." Id
at ¶¶ 15–19.
TVAT stated that "[r]elying primarily upon long-term monitoring, after-
the-fact grab samples, or non-chemical-specific readings is inadequate." TVAT
Report at 18. Yet WRPS's Chief Operating Officer, Robert Gregory, admitted
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that WRPS still relies on that flawed approach. Crafton Decl., Ex. 19 (Gregory
Dep. at 171–172). TVAT also recommended that WRPS fill the gaps in its list of
chemicals of potential concern, which WRPS has not done either. TVAT Report
at 23; Crafton Decl., Ex. 19 (Gregory Dep. at 173–175). Indeed, WRPS has
systematically shrunk the vapor control zones, which resulted in yet more
exposures. Crafton Decl., Ex. 19 (Gregory Dep. at 79:2–7, 95–96).
In addition, WRPS seeks to further reduce its worker protection standards
by replacing supplied air with respirator cartridges or eliminating the requirement
for respiratory protection entirely. Crafton Decl., Ex. 17 (Way Dep. at 115:15–
24); Crafton Decl., Ex. 19 (Gregory Dep. at 78–79, 129:3–24). On April 13, 2016
Mr. Gregory emailed his employees saying he believed that WRPS's control
measures would protect employees because monitoring results showed that
airborne concentrations were below occupational exposure limits. Crafton Decl.,
Ex. 19 (Gregory Dep. at 67–74); Crafton Decl. Ex. 20. Yet, during the five days
prior to Gregory's email, employees sought medical attention for exposures to
vapors in three events. Crafton Decl., Ex. 19 (Gregory Dep. at 74:15–22). After
that email, there were more such events, including one on April 28 where two
exposed workers were hundreds of yards beyond the established vapor control
zones. <i>Id.</i> at 95–97.

1	WRPS's policy permits workers to voluntarily request supplied air within
2	the tank farms. Crafton Decl., Ex. 19 (Gregory Dep. at 90:7–15). Local Union
3	598 members, however, have received fewer job opportunities at Hanford since
4	they began making such requests. Declaration of Randall Walli ("Walli Decl.") at
5	¶ 4, Ex. 1. In any event, management is responsible for providing a safe working
6	environment, and management cannot transfer that responsibility to the workers.
7	E. Accepted Principles of Industrial Hygiene Demand Greater Protection of Worker Health
8	Bernard Mizula is a Certified Industrial Hygienist with more than 20 years
9	of comprehensive occupational health and safety experience, mostly in the areas
10	of hazardous waste operations and emergency response. Mizula Decl. at ¶¶ 5–7.
11	Mr. Mizula reviewed the numerous reports on worker safety at Hanford, reviewed
12	discovery materials, and toured the Hanford site. Mizula Decl. at ¶ 2. His
13	conclusion is that WRPS and DOE's Industrial hygiene programs "simply do not
14	protect workers" from vapor exposures. <i>Id.</i> at ¶ 44. Mr. Mizula concludes that
15	workers need immediate protection from exposures, which may be accomplished
16	by adopting the administrative controls Citizen Plaintiffs ask this Court to require
17	Id. at $\P\P$ 95, 52, 55–59.
18	WRPS has recently refused a demand by workers to implement similar
19	safety measures. In June 2016, the Hanford Atomic Metal Trades Council
20	(HAMTC) sent a letter to WRPS demanding that it immediately take several
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specific steps to protect workers from continuing vapor exposures. Walli Decl.,
Ex. 3. HAMTC is the collective bargaining unit representative for all of the
unions working at Hanford. <i>Id.</i> at ¶ 9. Specifically, HAMTC demanded that
WRPS expand vapor control zones to no less than 200 feet away from the
perimeter fence line of the applicable tank farm where work is occurring, require
all works inside vapor control zones to use supplied air, and barricade all roads
and access points to prevent unauthorized entry into the vapor control zones. <i>Id.</i> ,
Ex. 3. WRPS refused to accept these commonsense demands. <i>Id.</i> , Ex. 4 at 3.
III. AUTHORITY AND ARGUMENT
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A. Citizen Plaintiffs Have Standing  To have standing, Citizen Plaintiffs must show a "threat of suffering 'injury in fact' that is concrete and particularized; the threat must be actual and imminent, not conjectural or hypothetical; it must be fairly traceable to the challenged action of the defendant; and it must be likely that a favorable judicial

right, the interests at stake are germane to the organization's purpose, and neither

the claim asserted nor the relief requested requires the participation of individual

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1	members in the lawsuit." Friends of the Earth, Inc. v. Laidlaw Envtl. Servs., 528
2	U.S. 167, 181 (2000).
3	Hanford Challenge is a non-profit, public interest, environmental and
4	worker advocacy organization dedicated to creating a future for Hanford that
5	secures human health and safety, advances accountability, and promotes a
6	sustainable environmental legacy. Walli Decl. at ¶ 10. The present suit is germane
7	to Hanford Challenge's purpose because it seeks to protect the health of its
8	members who work at Hanford such as Walli, and . UA Local
9	Union 598 is a labor organization that has more than 70 members who work at
10	Hanford. $Id$ . at ¶ 5. The present suit is germane to its purpose, which includes
11	ensuring a safe working environment for its members, such as Walli and Cain. <i>Id</i> .
12	at ¶ 4. Plaintiff organizations have standing if their "members, or any one of
13	them" have standing. Warth v. Seldin, 422 U.S. 490, 511 (1975).
14	, Walli, and Cain have standing to sue in their own right
15	because their health has been placed at risk or adversely affected by vapor
16	releases at the Hanford tank farms. Their risk of injury or actual injuries are fairly
17	traceable to Defendants' challenged conduct in creating a dangerous work
18	environment at Hanford, because they were exposed while they were working
19	near vapor sources at the tank farms. Their risk of injury or actual injuries are also
20	redressable because Plaintiffs seek an injunction requiring Defendants to abate
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the endangerment caused by toxic vapor releases at the Hanford tank farms,
including medical monitoring. Cmty. Ass'n for Restoration of the Env't, Inc. v.
Cow Palace, LLC, 80 F. Supp. 3d 1180, 1207–10 (E.D. Wash. 2015) (finding
standing to sue for RCRA endangerment based on health risks from exposure to
nitrate in groundwater). Since Plaintiffs seek only injunctive relief to improve
worker safety at Hanford and medical care for injured workers. They are not
seeking damages for their members' injuries, the participation of individual
members as parties to this case is unnecessary. Presidio Golf Club v. Nat'l Park
Serv., 155 F.3d 1153, 1159 (9th Cir. 1998). Plaintiffs therefore have
organizational standing.
B. Plaintiffs Are Entitled to a Preliminary Injunction
Citizen Plaintiffs incorporate and adopt the State's arguments on the
standards for obtaining a preliminary injunction.
C. Plaintiffs Are Likely to Prevail on Their Claim that Defendants
Are Contributing to an Imminent and Substantial Endangerment to Human Health
Endangerment to Human Health
Endangerment to Human Health  RCRA provides that citizens may commence a citizen suit against any
Endangerment to Human Health  RCRA provides that citizens may commence a citizen suit against any person "who has contributed or who is contributing to the past or present
Endangerment to Human Health  RCRA provides that citizens may commence a citizen suit against any  person "who has contributed or who is contributing to the past or present  handling, storage, treatment, transportation, or disposal of any solid or hazardous

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1	plaintiff must prove (1) the existence of a solid or hazardous waste; (2) that the
2	defendant handled, stored, treated, transported, or disposed of; and (3) that may
3	present an imminent and substantial endangerment.
4	Defendants admit that the tanks at Hanford contain and store solid waste,
5	and that the vapors released from the tanks originate from that waste. DOE
6	Answer ¶¶ 22, 42–44; WRPS Answer ¶¶ 43–44. Defendants are handling and
7	disposing of that waste by moving it between tanks and venting it to the
8	atmosphere. DOE Answer ¶¶ 40, 46–51; WRPS Answer ¶¶ 46–51. A "disposal"
9	under RCRA occurs where, as in this case, "the solid waste is <i>first</i> placed 'into or
10	on any land or water' and is thereafter 'emitted into the air." Ctr. For Cmty.
11	Action and Envtl. Justice v. BNSF Ry. Co., 764 F.3d 1019, 1024 (9th Cir. 2014)
12	(emphasis in original). Thus, the only issue is whether vapors released from that
13	waste pose an imminent and substantial endangerment to the health of Plaintiffs'
14	members and Hanford workers.
15	1. Endangerment Is a Lenient and Highly Protective Standard
16	Congress added the "imminent and substantial endangerment" provision to
17	§ 6972 of RCRA in 1984 to give citizens a private means of obtaining the same
18	relief that EPA had previously been authorized to seek under RCRA § 6973.
19	Middlesex Cty. Bd. v. N.J., 645 F. Supp. 715, 721 (D.N.J. 1986). The
20	endangerment provision contains "expansive language," which is 'intended to
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1	confer upon the courts the authority to grant affirmative equitable relief to the		
2	extent necessary to eliminate any risk posed by toxic wastes." <i>Interfaith Cmty</i> .		
3	Org. v. Honeywell Int'l, Inc., 399 F.3d 248, 259 (3d Cir. 2005). When it amended		
4	RCRA, Congress directed that:		
5	The primary intent of the provision is to protect human		
6	health and the environment; hence, the courts should consider both the nature of the endangerment which		
7	may be presented and its likelihood, recognizing that risk may be "assessed from suspected, but not		
8	completely substantiated, relationships between facts, from trends among facts, from theoretical projections,		
9	from imperfect data, or from probative preliminary data not yet certifiable as 'fact.'"		
10	U.S. v. Conservation Chem. Co., 619 F. Supp. 162, 194 (D. Mo. 1985) (quoting S.		
11	Rep. No. 284, 98 <sup>th</sup> Cong., 1st Sess. 59 (1983)). "Courts asked to decide whether		
12	RCRA has been violated often employ nondefinitive data in assessing the risk		
13	posed by the waste." Maine People's Alliance v. Holtrachem Mfg. Co., 211 F.		
14	Supp. 2d 237, 247 (D. Me. 2002), aff'd, 471 F.3d 277, 296 (1st Cir. 2006).		
15	RCRA requires only that a showing that a solid or hazardous waste "may		
16	present" an imminent and substantial endangerment. 42 U.S.C. § 6972(a)(1)(B).		
17	"[P]laintiffs must [only] show that there is a potential for an imminent threat of		
18	serious harm." Parker v. Scrap Metal Processors, Inc., 386 F.3d 993, 1015 (11th		
19	Cir. 2004). "An endangerment is 'imminent' if factors giving rise to it are present,		
20	even though the harm may not be realized for some time." <i>Holtrachem</i> , 211 F.		
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1	Supp. 2d at 247. This Court has stated that "[t]he term 'imminent' does not
2	require a showing that actual harm will occur immediately so long as the risk of
3	threatened harm is present." Cow Palace, 80 F. Supp. 3d at 1227.
4	An endangerment is "substantial" if "there is some reasonable cause for
5	concern that someone or something may be exposed to a risk of harm if
6	remedial action is not taken." <i>Interfaith</i> , 399 F.3d at 259. Endanger "means
7	something less than actual harm." U.S. v. Vertac Chem. Corp., 489 F. Supp. 870,
8	885 (E.D. Ark. 1980). "Danger is a risk, and so must be decided by an assessmen
9	of risk." <i>Id</i> . "In terms of substantiality, Plaintiffs need not quantify the risk of
10	harm in order to establish an endangerment." <i>Holtrachem</i> , 211 F. Supp.2d at 247.
11	"Because hazardous substances are, by definition, capable of causing
12	serious harm, a substantial endangerment may exist whenever the circumstances
13	of a release or threatened release of a hazardous substance are such that the
14	environment or members of the public may become exposed to such substances
15	and are therefore put at risk." <i>Conservation Chem.</i> , 619 F. Supp. at 195. "For very
16	hazardous substances, such as those that are toxic at low concentrations or known
17	or suspected carcinogens, a substantial endangerment will arise when small
18	amounts are released or threatened to be released." <i>Id</i> . "Among those situations in
19	which the endangerment may be regarded as 'substantial' are the threat of
20	substantial or serious harm (such as exposure to carcinogenic agents or other
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1	hazardous contaminants)." U.S. v. Reilly Tar, 546 F. Supp. 1100, 1110 (D. Minn.
2	1982) (quoting H. Rep. No. 1185, 93rd Cong., 2d Sess. 35–36 (1974)).
3	The endangerment standard is a "lenient" one which "shall be developed in
4	a liberal, not a restrictive, manner." U.S. v. Waste Indus., Inc., 734 F.2d 159, 167
5	(4th Cir. 1984). "Courts should not undermine the will of Congress [in the
6	endangerment provisions] by either withholding relief or granting it grudgingly."
7	<i>U.S. v. Price</i> , 688 F.2d 204, 214 (3d Cir.1982). "[I]f an error is to be made in
8	applying the endangerment standard, the error must be made in favor of
9	protecting public health, welfare and the environment." <i>Interfaith</i> , 399 F.3d at
10	259.
1	2. Recent Worker Exposures and Injuries Are Sufficient to
12	Demonstrate Endangerment  Under this lenient standard of endangerment, the present working
13	conditions at the Hanford tank farms may—indeed do—present an imminent and
4	substantial endangerment to human health. In recent months, dozens of workers
15	have been exposed to vapor releases while working at Hanford. Crafton Decl.,
6	Ex. 11. The vapors contain hazardous substances, some of which have been
17	measured on site in excess of occupational exposure limits. Crafton Decl., Ex. 16.
18	Resulting worker injuries include both short-term, acute harm such as bloody
19	noses and difficulty breathing, and long-term, continuing harm such as reduced
20	respiratory function, neurological damage and inability to work. See Section II.B,
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supra. The circumstances of the exposures and harm leave no doubt that vapor
releases are causing this harm. Workers are on site and healthy one minute, then
smell strong odors the next, and soon after are gasping for breath. At a minimum,
the documented exposures and subsequent injuries establish that there "may" be
an imminent and substantial endangerment.
The declarations by on-site workers are highly probative of endangerment.
They have worked at Hanford for years. They are familiar with the site and the
potential sources. They also have a strong economic interest in continuing to
work despite the difficult working conditions. While working, they have been
blind-sided by invisible vapors, and have suffered harm that has prevented them
from continuing to work, or in one instance have compelled a worker to quit his
employment. A formal epidemiological analysis in the TVAT and the opinions of
numerous other medical and industrial hygiene professionals support their
individual accounts of exposure and injury. These circumstances demonstrate
conclusively that the harm is both imminent and substantial.
Federal courts have frequently relied on much less evidence, such as
circumstantial or eyewitness testimony only, to find liability for violating federal
environmental laws. Franklin Cnty. Convention Facilities Auth. v. Am. Premier
Underwriters, Inc., 240 F.3d 534, 547 (6th Cir. 2001) (when determining
CERCLA liability, "there is nothing objectionable in basing findings solely on
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circumstantial evidence"); State of Georgia v. City of East Ridge, 949 F. Supp.
1571, 1577 (N.D. Ga. 1996) (relying on eyewitness testimony to find a violation
of the Clean Water Act); Concerned Area Residents for the Env't v. Southview
Farm, 34 F.3d 114, 120 (2d Cir. 1994) (same); U.S. v. Strandquist, 993 F.2d 395,
397–98 (4th Cir. 1993) (same). "Circumstantial evidence is not only sufficient,
but may also be more certain, satisfying and persuasive than direct evidence."
Desert Palace, Inc. v. Costa, 539 U.S. 90, 100 (2003). When it enacted RCRA,
Congress encouraged reliance on such evidence, recognizing that a finding of
endangerment can be based on non-definitive data and "suspected, but not
completely substantiated, relationships between facts." <i>Holtrachem</i> , 211 F.
Supp.2d at 247; Conservation Chem., 619 F. Supp. at 194. Here, eyewitness
worker testimony alone suffices to support a finding of imminent and substantial
endangerment. WRPS' records confirm the danger. Crafton Decl., Ex. 11.
Even if the workers' testimony by itself were insufficient, the considerable
additional expert testimony in this case further supports such a finding. WRPS
relies on flawed modeling data rather than worker exposures to establish vapor
protection zones, and that modeling underestimates the risk of harm. Palermo
Decl. ¶12–15, 19. WRPS's modeling data must be rejected because it "bears no
rational relationship to the reality it purports to represent." Columbia Falls
Aluminum Co. v. EPA, 139 F.3d 914, 923 (D.C. Cir. 1998). If a model fails to
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1	correlate with observed facts, it is the model that must be discarded, not the
2	reality of serious harm to workers.
3	Further, toxicologist Dr. Takaro concluded that given the uncertainty
4	around the nature of the exposures, the known source of the hazards and the
5	significant size of the population at risk, current practices at Hanford Tank Farms
6	are clearly inadequate to protect workers from harm. Takaro Decl. ¶ 28. Mr.
7	Mizula agrees that "the Hanford Tank Farms are an uncontrolled chemistry and
8	toxicology experiment that workers are currently subjected to without appropriate
9	hazard controls in place." Mizula Decl. ¶ 23. Plaintiffs are therefore likely to
10	succeed on their endangerment claims.
11	D. The Court Should Order WRPS to Expand Its Vapor Control Zones and Require Mandatory Use of Supplied Air Within
<ul><li>11</li><li>12</li></ul>	D. The Court Should Order WRPS to Expand Its Vapor Control Zones and Require Mandatory Use of Supplied Air Within Those Zones
	Zones and Require Mandatory Use of Supplied Air Within
12	Zones and Require Mandatory Use of Supplied Air Within Those Zones
12 13	Zones and Require Mandatory Use of Supplied Air Within Those Zones  Preliminary injunctions are usually granted to prevent a defendant from
12 13 14	Zones and Require Mandatory Use of Supplied Air Within Those Zones  Preliminary injunctions are usually granted to prevent a defendant from taking actions that change the status quo pending a trial on the merits. However,
12 13 14 15	Zones and Require Mandatory Use of Supplied Air Within Those Zones  Preliminary injunctions are usually granted to prevent a defendant from taking actions that change the status quo pending a trial on the merits. However, the status quo cannot be a state of affairs whereby the potential for harm is
12 13 14 15 16	Zones and Require Mandatory Use of Supplied Air Within Those Zones  Preliminary injunctions are usually granted to prevent a defendant from taking actions that change the status quo pending a trial on the merits. However, the status quo cannot be a state of affairs whereby the potential for harm is ongoing. Golden Gate Rest. Ass'n v. City & Cty. of San Francisco, 512 F.3d
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This concept is even more firmly established under RCRA, where the usual
disfavor towards granting a preliminary injunction is overridden by Congress'
plain intent that RCRA "confer upon the courts the authority to grant affirmative
equitable relief to eliminate any risks posed by toxic wastes." <i>Interfaith</i> , 399 F.3d
at 267. Indeed, under RCRA, it is well established that "the status quo in cases of
potential environmental contamination is not a 'condition of rest,' but one 'of
action which, if allowed to continue or proceed unchecked or unrestrained, will
inflict serious irreparable injury." <i>Price</i> , 688 F.2d at 212.
In this case, the status quo threatens to cause further irreparable injury to
Hanford workers. It is not feasible to issue the usual preliminary injunction that
would simply prohibit Defendants from allowing new vapor releases that
endanger those workers. In the short term, tank releases cannot be stopped
entirely or controlled at source; tank venting "is driven by the safety
consideration of avoiding buildup of flammable gas in the head space of the
DSTs." TVAT Report at 26. The TVAT team documented that the exposures
cause workers harm, but, despite its expertise, the TVAT team was unable to
exactly "identify the mode or mechanism by which the exposures are generated."
<i>Id.</i> at 9. This is partly because there are so many chemicals at issue. Therefore,
absent complete control of the vapor releases, continuing injuries from toxic
exposures are inevitable unless workers are protected from the vapors. TVAT

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1	could therefore onl	y recommend "means by which the potential of exposure can
2	be reduced in the n	ear term." <i>Id.</i> WRPS' Implementation Plan in response to the
3	TVAT report adop	ts this same strategy of exposure minimization "to help reduce
4	the potential for ch	emical vapor exposures in the near term." Implementation Plan
5	at 1. WRPS conced	les that "limiting worker exposure to bolus emissions of
6	chemical vapors 're	epresents an extraordinary challenge that cannot be easily
7	addressed through	traditional approaches." Id. at 2.
8	The simple f	act that nearly 100 workers have been exposed since this case
9	was filed demonstr	ates the need for additional protective measures. See Crafton
10	Decl., Ex. 2. Dr. T	akaro and Mr. Mizula agree that immediate action is needed to
11	minimize the risk of	of future harm. Takaro Decl. ¶ 28; Mizula Decl. ¶ 95, 52, 55–
12	59. Plaintiffs requ	est this Court require:
13	1.	Mandatory use of supplied air at all times for all
14		personnel working within the perimeter fence lines of the tank farms;
15	2.	During waste disturbing activities, establishment
16		of an expanded vapor control zone not less than 200 feet away from the perimeter fence line of
17		the affected tank farms, and effective barricading of all roads and access points to prevent entry
18		into the expanded zone, should injuries subsequently occur outside of this zone it should
19		be expanded to include the distance from the disturbed tank to the site of the subsequent injury;
20		

2	working inside a vapor control zone, including the expanded zone described above; and	
3	4. Installation and use of additional monitoring and alarming equipment in affected tank farms during	
4	waste disturbing activities, to include optical gas imaging cameras, optical spectrometers, optical	
5	stack monitors, and VMD integration software.	
6	Mr. Mizula explains in his declaration why these measures are needed and	
7	appropriate. Mizula Decl. at ¶¶ 45–59.	
8	Supplied air has been provided to all workers doing work in the tanks	
9	farms in the past. Crafton Decl., Ex. 18 (Fletcher Dep. at 131:4–10). WRPS's July	
0	2016 response to HMATC does not dispute the feasibility of that measure, but	
1	instead asserts that it is unnecessary. WRPS Letter at 3 ("Based on our technical	
12	evaluations, the TVAT report, and the mitigation actions described above, there is	
13	no basis for mandating SCBA equipment for routine work activities within	
14	double-shell tank farms."). WRPS' position is simple defiance, and shows an	
15	unreasonable willingness to sacrifice the health of Hanford workers. Sadly, this is	
16	a repetition of a pattern that has occurred for over 20 years, where temporary	
17	worker safety precautions increase in response to observed harms, but are then	
18	rolled back until yet more harms occur. This Court should break that pattern	
19	because both WRPS and DOE are unwilling to do so.	
20		
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# E. Granting a Preliminary Injunction Avoids Potential Irreparable Harm to Workers' Health That Outweighs any Harm to Defendants

Because RCRA uses endangerment, rather than actual harm, as the basis for liability, the statute contemplates "a more lenient standard than the traditional requirement of irreparable harm." *Waste Indus.*, 734 F.2d at 165. Consequently, the requirement of irreparable harm for a preliminary injunction is satisfied by showing a threat to public health or the environment. *Vertac Chem. Corp.*, 489 F. Supp. at 885. As shown by the declarations submitted in this case, vapor releases at Hanford unquestionably pose an urgent and serious threat to worker health and safety.

In addition, the balancing of harms clearly favors Plaintiffs. The harm to worker safety from continuing vapor releases outweighs any potential economic harm to Defendants from implementing increased safety measures pending a trial on the merits. DOE's Hanford manager agreed that worker safety trumps any loss of work efficiency from using respiratory protection. Crafton Decl., Ex. 18 at 231:2–5. When it enacted RCRA, Congress decided that protecting public health and the environment was of paramount importance. Congress put its "thumb on the scale in favor of remediation." *Maine People's Alliance and NRDC v. Mallinckrodt, Inc.*, 471 F.3d 277, 297 (1st Cir. 2006). As a result, in issuing injunctive relief, the district court's "primary concern ought to be how best to

CITIZEN PLAINTIFFS' MOTION FOR PRELIMINARY INJUNCTION - 29 CASE No. 4:15-cv-05086-TOR remedy a potentially serious near-term environmental hazard" and there is no requirement for a "showing that the remedy's demonstrable benefits exceeded its probable costs." *Id.* Furthermore, federal regulations require DOE and WRPS to "provide a place of employment that is free from recognized hazards that are causing or have the potential to cause death or serious physical harm to workers." 10 C.F.R. § 851. Defendants therefore cannot rely on the costs of complying with that requirement as a defense to RCRA compliance.

### F. No Bond or Only a Minimal Bond Should Be Required

While Rule 65(c) provides that a movant for preliminary injunctive relief should give security in an amount the Court considers proper to pay potential costs or damages that a party may suffer if it is later found that party was wrongfully enjoined or restrained, determination of the proper amount of security includes the discretion to waive the bond entirely or to require a minimal bond. *Barahona-Gomez v. Reno*, 167 F.3d 1228, 1237 (9th Cir. 1999); *California ex rel. Van de Kamp v. Tahoe Reg. Planning Agency*, 766 F.2d 1319, 1325 (9th Cir. 1985). Waiver of the bond, or imposition of a very minimal bond, is customary and favored in cases where non-profit organizations have brought suit in the public interest to protect the environment. *Id.* No bond should be required here because Plaintiffs are bringing this case in the public interest, and will obtain no financial gain if they win. In addition, that Plaintiffs have a strong likelihood of

1	success on the merits weighs against a substantial bond. Muckleshoot Indian
2	Tribe v. Hall, 698 F. Supp. 1504, 1518 (W.D. Wash. 1988).
3	IV. CONCLUSION
4	For all of the foregoing reasons, Citizen Plaintiffs respectfully request that
5	the Court grant their motion for preliminary injunction.
6	RESPECTFULLY SUBMITTED AND DATED this 21st day of July,
7	2016.
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1	CERTIFICATE OF SERVICE
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3	the foregoing with the Clerk of the Court using the CM/ECF system which will
4	send notification of such filing to the following:
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