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**UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF CALIFORNIA  
OAKLAND DIVISION**

TRI-VALLEY CARES, *et al.*,

No. C 08-01372 SBA

Plaintiffs,

**ORDER**

v.

[Docket No. 13]

UNITED STATES DEPARTMENT OF  
ENERGY, *et al.*,

Defendants.

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**REQUEST BEFORE THE COURT**

Before the Court is Plaintiffs' Amended Motion for Preliminary Injunction (the "Motion") [Docket No. 13], Defendants' Opposition to Plaintiff's Motion for Preliminary Injunction (the "Opposition") [Docket No. 11], and Plaintiffs' Reply to Defendants' Opposition to Plaintiffs' Motion for Preliminary Injunction (the "Reply") [Docket No. 16]. This is plaintiffs' second suit under the National Environmental Policy Act of 1969 (the "NEPA"), 42 U.S.C. § 4321 *et seq.*, to prevent defendants from operating a biosafety level-3 facility at the Lawrence Livermore National Laboratory ("LLNL") in Livermore, California, on the grounds defendants have allegedly failed to comply with the NEPA.

In their Motion, plaintiffs seek a preliminary injunction on four grounds. First, they assert that defendants' Final Revised Environmental Assessment ("FREA") does not properly address the possibility of a terrorist attack, and thus defendants illegally issued a Finding of No Significant Impact ("FONSI"). Second, they assert that defendants illegally failed to prepare an Environmental Impact Statement ("EIS"). Third, they assert that defendants deliberately and illegally withheld material information from a Revised Environmental Assessment ("REA") which was circulated for public comment. And fourth, they assert that defendants illegally failed to publicly circulate their FONSI. As such, they claim that a preliminary injunction should issue, because they are likely to prevail on the merits of these claims at trial, and because the balance of hardships tips sharply in their favor.

1 The Court having reviewed the parties' pleadings, finds this matter appropriate for resolution  
2 without a hearing under Federal Rule of Civil Procedure 78(b). As discussed below, on their first,  
3 second, and fourth counts, plaintiffs have not stated a serious question of law, nor have they shown  
4 they would likely prevail on their merits at trial. On their third count, however, plaintiffs have  
5 shown they would likely prevail on the issue of whether defendant the United States Department of  
6 Energy (the "DOE") should have supplemented its REA with details regarding two 2005 shipping  
7 incidents and circulated this information for public comment. Nonetheless, they fail to show any  
8 irreparable injury. As such, the Court DENIES the Motion.

## 9 BACKGROUND

### 10 I. The Biosafety Level-Three Facility at Lawrence Livermore National Laboratory

11 On December 16, 2002, pursuant to its statutory mission to reduce the global danger from  
12 weapons of mass destruction, including biological weapons, the National Nuclear Security  
13 Administration (the "NNSA"), an agency within the DOE, authorized the construction of a  
14 "biosafety level-3"<sup>1</sup> ("BSL-3") laboratory at LLNL. Defs.' Ex. "1" at 4 (Final Revised Envntl.  
15 Assessment (the "FREA")). The facility was designed using CDC and NIH guidelines for the  
16 operation of BSL-3 facilities.<sup>2</sup> *Id.* at iii, 11, 17.

17 The DOE originally proposed the BSL-3 laboratory as part of the Chemical and Biological  
18 National Security Program, an initiative developed in response to the 1997 Defense Against  
19 Weapons of Mass Destruction Act, 50 U.S.C. § 2301, and designed to engage the NNSA's  
20 laboratories in improving preparedness for chemical and biological attacks. FREA at 4. Congress  
21 subsequently transferred some of the NNSA's biological security mission to the Department of  
22 Homeland Security (the "DHS"). *Id.* The DHS is authorized to access the DOE's laboratory

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24 <sup>1</sup> Guidelines issued by the Centers for Disease Control and Prevention (the "CDC") and the  
25 National Institutes for Health (the "NIH") divide lab operations into four levels, BSL-1 to BSL-4.  
26 BSL-3 laboratories work with agents which may cause diseases with serious or lethal consequences  
if untreated and which have the potential of aerosol (airborne) transmission. There are over 1,350  
BSL-3 laboratories in the United States. FREA at 8. Common examples are hospital surgical suites,  
laboratories associated with medical schools, or university research laboratories. *Id.* at 6.

27 <sup>2</sup> According to the DOE, these guidelines are found in the fourth edition of *Biosafety in*  
28 *Microbiological and Biomedical Laboratories* ("*Biosafety*"), published by the CDC and NIH in  
April 1999. FREA at 6, 73.

1 resources in furtherance of its biological security mission, and the LLNL contemplates the majority  
2 of research conducted at the BSL-3 facility will be performed for the DHS. *Id.*

3 Current bioscience work at LLNL targets both the reduction of the national threat from  
4 terrorism using biological weapons and the enhancement of public health capabilities. *Id.* at 6. For  
5 example, LLNL has developed the Biological Aerosol Sentry and Information System (BASIS) to  
6 aid in the early detection and rapid response to biological attack. *Id.* Prior to opening the BSL-3  
7 lab, LLNL only maintained microbiology laboratories equipped to operate at BSL-1 and -2. *Id.* at 7.  
8 This forced LLNL to conduct its BSL-3 research at off-site private sector and university facilities.  
9 *Id.* at 8. This was a problem because LLNL had no control over off-site security, and excessive  
10 handling and transportation increased the risk of cross-contamination and degradation. *Id.* Further,  
11 these laboratories were in high demand and frequently committed to projects for other entities. *Id.*  
12 Thus, the DOE determined that future bioscience work at LLNL required the construction of an  
13 on-site BSL-3 facility. *Id.*

14 After considering alternatives, *see id.* at 26-27, a prefabricated building installed next to  
15 existing BSL-2 facilities was chosen as the BSL-3 facility. *Id.* at 9. The 1,500 square-foot BSL-3  
16 facility has three BSL-3 lab rooms, and is designed for a normal occupancy of up to six workers. *Id.*  
17 All air-handling systems were designed as required by CDC guidelines. *Id.* at 17. Thus, the facility  
18 has a High Efficiency Particulate Air-Purifying (HEPA) air filtration system, in which all laboratory  
19 room air passes through two HEPA filters in series before being vented outside. *Id.* at 13. Each  
20 filter is at least 99.97 percent efficient at removing bioagents. *Id.* at 43, 55. One room within the  
21 facility has pressurized HEPA-filtered cages to hold up to 100 rodents. *Id.* at 15-16. And, the  
22 facility operates at negative air pressure, that is, with an air pressure less than that of outside air,  
23 drawing air into the facility, in the event a breach. *Id.* at 17; Docket No. 12, Ex. “7” ¶ 6 (Decl. of  
24 Leslie A. Hofherr (“Hofherr Decl.”)). In the event of main power loss, a backup power system  
25 would enable workers to safely shut down any work occurring in the BSL-3 facility. FREA at 17.  
26 In the event all power were lost, the air supply would shut down, and “zone-tight” dampeners would  
27 close, to prevent air flow within the facility. *Id.*

28 **II. The 2002 Initial Environmental Assessment (EA)**

1 Pursuant to the NEPA, the DOE performed an initial EA for the proposed BSL-3 laboratory.  
2 The EA considers the environmental impacts of the BSL-3 laboratory on a wide range of issues,  
3 including human health, *id.* at 40, ecological resources, *id.* at 39, transportation, *id.* at 56, waste  
4 management, *id.* at 48, geology, soils and seismology, *id.* at 49, noise, *id.* at 47, and air quality, *id.*  
5 at 46. The EA also discusses how CDC and NIH guidelines govern the facility’s operations and  
6 mitigate the risk of laboratory-acquired infections and possible affects of an accidental release.

7 As the EA notes, the CDC and NIH have established standards for operating BSL-3 labs. *Id.*  
8 at 17-19. These require that before infectious microorganisms may be handled, a risk analysis must  
9 be prepared, and the local medical community informed of the agent, how to identify it, and treat its  
10 associated diseases. *Id.* at 18. Prior to using a CDC designated select agent,<sup>3</sup> the facility must  
11 register with the CDC and show it meets biosafety level requirements for working with that agent.  
12 *Id.* at 17. Only personnel registered with the CDC may handle such agents. *Id.* at 65. And, the  
13 CDC conducts periodic inspections. *Id.* at 21. For microorganisms which are not select agents, the  
14 facility would still handle them according to CDC and NIH guidelines. *Id.* at 18.

15 In addition, under NIH regulations, operations at the BSL-3 laboratory would be subject to  
16 the LLNL Institutional Biosafety Committee (the “IBC”), which includes staff members, health care  
17 providers, a DOE official, and at least two public members. *Id.* at 5-6. All pathogen experiments  
18 must be first reviewed and approved by the IBC. Defs.’ Ex. “6” at C-8 (FREA App. “C”: Public  
19 Comments on the EA (“FREA App. ‘C’ ”)). This is designed to involve the public in approving  
20 BSL-3 research and reviewing safety and compliance protocols. *Id.* at C-11.

21 In considering the possibility of a laboratory-acquired infection and its risk to facility  
22 personnel and the public, the DOE drew from the experiences of three sources it considered relevant  
23 and comparative: (1) hundreds of other CDC-registered BSL-3 laboratories; (2) the U.S. Army’s  
24 Biological Defense Research Program (BDRP) laboratories; and (3) LLNL’s BSL-1 and -2

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26 <sup>3</sup> A “select agent” and/or toxin generally means all biological agents or toxins listed in 42  
27 C.F.R. § 73.3 or § 73.4. 42 C.F.R. § 73.1. Subject to certain exclusions, these agents and toxins  
28 “have the potential to pose a severe threat to public health and safety, to animal health, or to animal  
products.” *See id.* §§ 73.3, 73.4. The select agent program “implements the provisions of the Public  
Health Security and Bioterrorism Preparedness and Response Act of 2002” related to working with  
select agents. *Id.* § 73.2.

1 laboratories. FREA at 40-42. With regards to the first category, the DOE found that since CDC  
2 guidelines were issued in 1974, there had been an extremely low incidence of laboratory-acquired  
3 infections in laboratories following the guidelines. *Id.* at 41. Further, it examined sources compiling  
4 data covering the early 20th Century through August 2000, and found “a noticeable lack of  
5 laboratory-acquired infection reports” from 1990 through 2000. *Id.* at 50.

6 With regards to the BDRP, in 1989 the Army prepared a programmatic or system-wide EIS,  
7 or PEIS, for its laboratories. *Id.* at 41. Defendants reviewed this and found the Army’s BDRP  
8 laboratories had “no occurrences of overt disease in laboratory . . . in BSL-3 facilities,” save for a  
9 1980 focal infection with *F. tularensis* at a puncture wound site. *Id.* And, in 2000, a worker  
10 exposed to *Burkholderia mallei*, which causes glanders, recovered after hospitalization. *Id.* In the  
11 PEIS, the Army estimated the rate of public infection from its Army Medical Research Institute of  
12 Infectious Diseases<sup>4</sup> from 1970 through 1989 at less than 0.001 per 1,000,000 person-years, and the  
13 risk of death to a lab worker at 0.005 per 1,000,000 person-years. *Id.* at 41-42.

14 Regarding LLNL, the DOE found in the prior 20 years there had seen no unintentional  
15 releases of bioagents or infections of lab personnel or the public from its biological operations. *Id.*

16 In addition to considering CDC, BDRP, and LLNL experiences, the EA analyzes the  
17 potential impacts of abnormal events or accidents through a “catastrophic release scenario” (the  
18 “Release Scenario”) which shows the “outside bounds” of the impact of a pathogen’s accidental  
19 release.<sup>5</sup> *Id.* at 51. This scenario shows that in the event of a bioagent release, there would be no  
20 significant impact on public health and safety. *Id.* at 55. In light of the foregoing, the DOE issued  
21 the EA in December 2002, *id.* at ii, concluding that the proposed BSL-3 laboratory would have no  
22 significant impact on the environment. Specifically, it concluded that the “potential human health  
23 effects of the proposed BSL-3 laboratory would be the same as those demonstrated for similar CDC-  
24 registered laboratories” subject to the CDC and NIH guidelines for BSL-3 facilities. *Id.* at iv, *see id.*  
25 at 40-42. The DOE thus issued a Finding of No Significant Impact (“FONSI”).

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27 <sup>4</sup> Defendants do not explain the relationship between this entity and the Army’s BDRP  
program as a whole.

28 <sup>5</sup> This is also known as a “bounded event.” *See* discussion in part IV.A.1 *infra*.

1 **III. The Prior Litigation in 2003 and 2004**

2 On August 26, 2003, plaintiffs<sup>6</sup> brought suit in this Court, under the NEPA, challenging the  
3 EA on numerous grounds, in *Tri-Valley Cares v. U.S. Department of Energy*, No. C 03-3926-SBA,  
4 2004 WL 2043034, 2004 U.S. Dist. LEXIS 18777 (N.D. Cal. Sep 10, 2004). *See* Docket No. 1 in  
5 case 03-03926 SBA. On September 10, 2004, this Court granted summary judgment for the DOE  
6 and denied summary judgment for plaintiffs. 2004 WL 2043034 at \*1, 2004 U.S. Dist. LEXIS  
7 18777 at \*3-\*4. In so ruling, the Court found defendants' EA supported the issuance of a FONSI  
8 and did not require an EIS. 2004 WL 2043034 at \*1, \*17, 2004 U.S. Dist. LEXIS 18777 at \*6, \*51.  
9 On appeal, the Ninth Circuit noted the EA failed to consider the environmental impact of a terrorist  
10 attack, as required by its holding in *San Luis Obispo Mothers for Peace v. Nuclear Regulatory*  
11 *Commission*, 449 F.3d 1016 (9th Cir. 2006). *Tri-Valley Cares v. Dep't of Energy*, 203 Fed.Appx.  
12 105, 107 (9th Cir. 2006). It thus affirmed in part and reversed in part, remanding for the DOE to  
13 consider whether the threat of a terrorist act necessitated the preparation of an EIS. *Id.* at 106-07.

14 **IV. The March 2007 Revised Environmental Assessment (REA)**

15 Following the Ninth Circuit's decision, the DOE issued a memorandum in 2006, providing  
16 interim guidance on how to address "intentional destructive" acts in NEPA documents. *See* Pls.'  
17 Ex. "13" at 1 (the "Guidelines Memo"). The DOE prepared a draft Revised EA (the "REA") in  
18 March 2007, which considered the impacts potentially associated with terrorist attacks, which it  
19 circulated for public comment from April 11 through May 11, 2007. Docket No. 13, Ex. "4"  
20 at cover; FREA at 8.

21 In the REA, in order to analyze the threat terrorist activity posed to the BSL-3 laboratory, the  
22 DOE was required to take a different approach than it did for analyzing the threat posed by  
23 accidents. FREA at 57-58. For the latter, the DOE used historical data to estimate the likelihood  
24 with which certain types of accident and catastrophic events occur, then analyzed the potential  
25 consequences. *Id.* For terrorist activity, however, not only is suitable historical data unavailable,  
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27 <sup>6</sup> Not all the plaintiffs in the first suit are plaintiffs in the current suit, as those who were  
28 involved in a separate action related to the Los Alamos National Laboratory which has been  
resolved, have not joined the current suit. *See* Docket No. 177 in case 03-3926 at 2:18-3:5. Also,  
there is a new plaintiff in the current suit, Jedidjah De Vries. *Id.*

1 but attempting to predict or model intentional human acts is impractical if not impossible. *Id.*  
2 Instead, the DOE assumed a terrorist attack would occur, and then considered increasing levels of  
3 protective strategies, until the risk of a successful attack, as well as the attractiveness of the facility  
4 to attackers, had been reduced to an acceptable level. *Id.* at 58. Because there are an infinite  
5 number of possible attack scenarios, rather than analyze specific ones in the REA, the DOE  
6 considered three general types of threats, and their potential impacts on the environment: (1) facility  
7 damage or destruction from direct terrorist attacks that results in loss of containment; (2) the theft  
8 and subsequent release of pathogenic material by a terrorist from outside LLNL; and (3) the covert  
9 theft and subsequent release of pathogenic material by an insider with access to the facility. *Id.*

10 **A. Direct Attack Resulting in Loss of Containment<sup>7</sup>**

11 The DOE considered that a loss of containment of pathogenic materials could result if one or  
12 more persons deliberately damaged the BSL-3 facility. *Id.* at 59. Possible scenarios considered for  
13 this type of attack were a suicidal plane crash or an explosive device delivered by vehicle or on foot.  
14 *Id.* In considering the impact or consequences from a loss of containment due to such an attack, the  
15 DOE first determined the bounded or outer limits of any release and then analyzed factors which  
16 could mitigate it. *Id.* at 59-61.

17 **1. The Accident-Based Release Scenario and its Dispersion Model**

18 In determining the bounded or outer limits of any release due to a loss of containment caused  
19 by a terrorist attack, the DOE concluded that they would be the same as those it had determined for a  
20 release attributable to an accident or natural catastrophe. *Id.* at 59. In the initial EA, the DOE  
21 developed the Release Scenario to evaluate the “outside bounds” or the reasonably foreseeable  
22 maximum bounds of the impact of an *accident- or catastrophe-based* release of a dangerous  
23 bioagent. *Id.* at 51. In formulating the Release Scenario, the DOE considered triggering events such  
24 as an accidental spill, an earthquake, an explosion, a fire, or an accidental airplane crash. *Id.*

25 Although the DOE considered numerous possible scenarios for modeling an accident- or  
26 catastrophe-based release, it chose the Release Scenario as the most appropriate one, as the Army

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28 <sup>7</sup> The Court does not discuss the theft scenarios in this Order, as plaintiffs do not address them  
in the Motion. *See infra* note 22.

1 used it to conduct NEPA analyses of its own biological research labs. *Id.* at 52. According to the  
2 Army, the Release Scenario is a “maximum credible event.”<sup>8</sup> *Id.* In the Release Scenario, a liter of  
3 *coxiella burnetii* (*C. burnetii*) is divided among six centrifuge tubes, which are placed in a  
4 centrifuge, with loose caps and/or loose O-rings. *Id.* at 54. When the centrifuge is activated, some  
5 of the tubes’ contents are aerosolized, resulting in the production of almost 10 billion airborne  
6 human infective doses (“HID”s).<sup>9</sup> *Id.* *C. burnetii* was chosen as a representative of all types of  
7 BSL-3 microorganisms because it poses a high human health risk, is “highly durable, infectious, and  
8 transmissible, and has excellent environmental sustainability.” *Id.* at 53.

9 The Army then modeled a plume of HIDs as it moved through the lab and outside via the  
10 ventilation system. *Id.* at 54. For conservative results, the Army assumed the lab had only one  
11 HEPA filter operating at only 95 percent effectiveness. *Id.* The Army concluded the chance of  
12 public exposure to an HID at a 50 percent rate of contracting the disease (“HID-50”) was extremely  
13 remote: At a distance of only 7 feet from the building vent, one liter of air would contain less than  
14 1.00 HID-50, less than 0.10 HID-50 at 53 feet, and less than 0.01 HID-50 at 125 feet. *Id.* at 54.

15 The DOE found the chances of exposure at the LLNL were even more remote than those  
16 modeled by the Army. *Id.* at 54-55. The Army scenario assumed one HEPA filter that was  
17 95 percent effective. The LLNL BSL-3 lab, however, filters all room air through two HEPA filter  
18 banks, each of which is at least 99.97 percent effective. *Id.* at 55. The Army scenario also assumed  
19 a lab in close physical proximity to the public, but the LLNL BSL-3 lab is one-half mile from the  
20 nearest public area. *Id.* at 52-53. Finally, the Army assumed lower wind speeds than are prevalent  
21 at LLNL. *Id.* Higher wind speeds would decrease airborne concentrations more quickly. *Id.* Based  
22 on this analysis, the DOE concluded that even under a highly unlikely catastrophic release, there  
23 would be no significant impact on public health or safety.

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25 <sup>8</sup> A reasonably foreseeable event with a low probability of occurrence, but with high  
26 consequences.

27 <sup>9</sup> Apparently, centrifuge accidents are not purely hypothetical. FREA at 52. After needle  
28 sticks, equipment-related accidents are the second-most common route of agent exposure. *Id.*; see  
also Docket No. 13, Ex. “1” ¶ 18 at 9 para. 1 (centrifuge incident at University of Texas at Austin),  
¶ 18 at 11 para. 1 (same at University of Texas at Houston) (Decl. of Edward Hammond).



1                                   **2.       Operational, Explosive, and Environmental Factors**

2           In analyzing potential terrorist attacks, the DOE found several factors would severely limit  
3 the consequences of such an event. First, during routine lab operations, very limited quantities of  
4 biological agents would be in use – usually only enough to begin cultures in a petri dish – and such  
5 agents would typically be handled in a liquid or solid medium, so that if spilled, very few organisms  
6 would be released to the air. *Id.* When not in use, organisms are stored in 2 mL sealed plastic vials  
7 and locked in freezers at -80° C. FREA App. “C” at C-22. Thus, the release of a quantity of  
8 pathogen would require a breach of the lab itself, the freezers, and the individual containment vials,  
9 and the conversion of the frozen material to a dispersible form. *See id.* at C-24. Even if the  
10 structure were breached and dispersible materials released, the negative pressure in the building  
11 would draw air into it and exhaust it through the HEPA filtration system. Hofherr Decl. ¶ 6.

12           Second, the DOE concluded a fire resulting from an airplane crash or explosive device of the  
13 magnitude necessary to breach containment would kill BLS-3 organisms quickly.<sup>10</sup> FREA at 59. In  
14 addition, any force sufficient to breach all levels of containment would breach containers of  
15 disinfectant, such as bleach, which would also kill organisms. *Id.*

16           Finally, in the highly unlikely event a bioagent were released, microorganisms would  
17 generally be rendered innocuous by exposure to outside conditions, in particular, sunlight and  
18 dehydration. *Id.* The DOE found these factors would substantially reduce the number of microbes  
19 released as a result of a direct attack within minutes, and the impacts of a facility breach caused by a  
20 direct terrorist act, such as a plane crash, would be no greater than the impacts addressed in the  
21 accident-based Release Scenario previously analyzed in the initial EA. *Id.* at 59.

22                                   **3.       Inoculations and Medical Treatment**

23           The DOE’s conclusions in the REA regarding the lack of any significant impact on public  
24 health, took into account the fact that all the bioagents used in the BSL-3 facility cause diseases for  
25 which treatment or inoculation is available. *Id.* at 60. Further, LLNL has briefed local health care  
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27 <sup>10</sup> For example, *Bacillus anthracis* spores are sterilized in 30 seconds at 200° C. FREA  
28 App. “C” at C-22. In comparison, the flame temperature for gasoline in a “open pool” fire is  
1,026° C. *Id.*

1 providers, so if necessary, the consequences of any release could be mitigated by inoculation and  
2 treatment of exposed individuals. *Id.*

#### 3 **4. Physical and Operational Security**

4 Finally, the DOE noted in the REA that the probability of a successful terrorist attack on the  
5 facility is mitigated by the extensive security measures in place at LLNL and the BSL-3 facility  
6 itself. *Id.* at 60-61. Unlike the majority of the 1,350 BSL-3 labs nationwide, which are mostly  
7 academic or clinical facilities, the LLNL site is protected by extensive physical security. *Id.* at 61.  
8 LLNL is surrounded by a patrolled security fence with badge-identification required for entry. *Id.*  
9 And it has its own security force, including an armed emergency response force. *Id.* In addition to  
10 LLNL security, access to the BSL-3 facility is limited to employees registered with the CDC and  
11 trained and qualified under its guidelines. *Id.* at 16, 61. Access to individual lab rooms within the  
12 building is limited to staff members approved to work during specific shifts, and all lab rooms are  
13 equipped with motion sensors. *Id.* at 61. Finally, within the lab, select agents are stored in locked  
14 freezers when not in use. *Id.*

15 The DOE also prepared a *Biological Risk and Threat Assessment* (BRTA) for the BSL-3  
16 facility, which examined its potential vulnerability to terrorist attacks and recommended security  
17 countermeasures to such threats. *Id.* at 61. Based on the BRTA, the DOE also prepared the *LLNL*  
18 *Select Agents and Toxins Security Plan* which set out a protection program for LLNL's select agent  
19 use and storage areas. *Id.* Thus, the DOE concluded the chance of a terrorist attack resulting in a  
20 breach of facility containment and the release of a pathogen was exceedingly remote. Nevertheless,  
21 it concluded that if such a breach were to occur, the resulting release would fall within the bounds of  
22 the Release Scenario developed in the initial EA, and would not significantly impact human health  
23 or the environment.

#### 24 **V. October 4, 2007 Hearings before the House Committee on Energy and Commerce's** 25 **Subcommittee on Oversight and Investigations**

26 On October 4, 2007, a House subcommittee held hearings titled "Germs, Viruses, and  
27 Secrets: The Silent Proliferation of Bio-Laboratories in the United States," regarding the "serious  
28 risks" posed by the proliferation of BSL-3 and BSL-4 laboratories in the United States after

1 September 11, 2001. Docket No. 13, Ex. “9” at 1 (Opening Statement of Chairman Bart Stupak  
2 (“Chair”); Ex. “17” (Statement of Keith Rhodes, Chief Technologist Ctr. for Techn. & Eng’g  
3 Applied Research & Methods, U.S. Gov’t Accountability Office (“GAO”)). The subcommittee was  
4 concerned that no single government agency had responsibility for monitoring or ensuring the safety  
5 of these laboratories, nor did any agency know how many there were, what research they conducted,  
6 or how safe or secure they were. Chair at 1 para. 4; *see* GAO.

7 The subcommittee also examined the issue of lax oversight and under-reporting. In  
8 particular, it noted there is no federal oversight for the possession, use, or transport of dangerous  
9 pathogens like hanta virus, SARS, or dengue fever, nor were theft or accident reports required, as  
10 these are not select agents. Chair at 2 para. 2. Further, the subcommittee noted select agent  
11 accidents appeared to be under-reported, Chair at 2 para. 4, which is problematic for a system reliant  
12 on self-reporting, GAO at 3 para. 2. While the CDC testified there had been no known releases of a  
13 regulated pathogen or biological toxin from a BSL-3 or BSL-4 laboratory, Docket No. 13, Ex. “8”  
14 at 1 para. 5 (N.Y. Times article dated 10/4/2007 (“NYT”)), it was concerned about unreported  
15 incidents, AP at 2 paras. 10-11.

16 The CDC testified that since 2003, three laboratory-acquired infections had sickened five  
17 personnel. NYT at 1 para. 6. The subcommittee chair noted that until information leaked to the  
18 public, Texas A&M University had repeatedly and intentionally failed to report select agent rule  
19 violations. Chair at 2 para. 4; NYT at 2 para. 7. This included failing to report that one researcher  
20 had been infected in 2006 and became seriously ill with *brucella*, and that blood tests of three other  
21 workers showed Q fever exposure. *Id.* The CDC closed A&M’s laboratory. NYT at 2 para. 7.

22 The subcommittee was troubled by the fact the CDC had inspected A&M just prior to these  
23 violations becoming public, but had failed to detect any of them. Chair at 5. This led the  
24 subcommittee to question the thoroughness of CDC inspections. Chair at 2, para. 5. The GAO  
25 testified there were too many laboratories for the level of oversight provided. Docket No. 13,  
26 Ex. “11” para. 4 (L.A. Times article dated 10/5/2007 (“LAT”)). The CDC’s Director of the  
27 Coordinating Office for Terrorism Preparedness and Emergency Response testified, “As a young  
28 program, there is a lot we can learn and there is a lot we can do to improve our oversight.” *Id.* at 1

1 para. 7. Although in 2001 the CDC had instituted background checks for researchers with access to  
2 select agents and begun inspecting federally financed labs once every three years, it testified it could  
3 broaden its document review and conduct more surprise inspections. *Id.* at 2 paras. 9-10. The GAO  
4 testified, however, that the FBI had become concerned with “its burgeoning workload in conducting  
5 background checks” for select agent researchers. LAT paras. 15-16. Finally, the subcommittee  
6 focused on whether BSL-3 and BSL-4 laboratories were designed and operated properly, based on  
7 an incident at the CDC’s BSL-4 facility in Atlanta involving a complete loss of electrical power.  
8 Chair at 2 paras. 6-7; *see* GAO at 2 para. 3; Docket No. 13, Ex. “15” at 1 para. 8 (Assoc. Press  
9 article dated 10/2/2007).

## 10 **VI. The 2008 Final Revised Environmental Assessment (FREA)**

11 On January 25, 2008, after evaluating public comment, the DOE found no significant  
12 environmental impact would result from a terrorist attack on the BSL-3 laboratory. It thus released a  
13 Final Revised EA (the “FREA”) and a FONSI on January 25, 2008. Opp’n at 5:25; *see* FREA and  
14 Defs.’ Ex. “4” (U.S. DOE Revised FONSI). The FREA duplicated the REA, except for a few  
15 administrative updates, *see* FREA at 2, 4, 8-9, and three substantive updates, *see id.* at 6, 50, 56.  
16 While one of the substantive updates addresses two shipping incidents in 2005, *see id.* at 56, the  
17 other two address the 2007 subcommittee hearings.

18 In regards to the hearings, the DOE notes that since the EA was issued in 2002, “the CDC  
19 has investigated several laboratory incidents involving exposure of personnel to biological agents  
20 that resulted in infection.” *Id.* at 50-51. The DOE discusses the four Texas A&M personnel, and  
21 notes that “in November 2004, three cases of tularemia were reported for Boston University  
22 laboratory researchers . . . .” *Id.* Further, that “[t]hese and other exposures to biological agents  
23 during laboratory incidents since 2002 resulted only in treatable illness, and are not known to have  
24 resulted in either death or secondary infections.” *Id.* It thus concludes that “[t]he relatively small  
25 number of accidental exposures during this 5-year period supports NNSA’s assertion that although it  
26 is possible, it is improbable laboratory staff would acquire an accidental laboratory-acquired  
27 infection during the operation of the proposed BSL-3.” *Id.*

1 BSL-3 operations at the facility began the same day as the FREA's release.<sup>11</sup> *See* Defs.'  
2 Ex. "5" ¶ 3 (Decl. of Eric Gard).

### 3 **VII. This Litigation**

4 On March 10, 2008, plaintiffs filed a Complaint alleging defendants had failed to prepare an  
5 adequate EA and FONSI, failed to prepare an EIS, failed to supplement their REA, and failed to  
6 publicly circulate the FONSI. *See* Docket No. 1. On March 26, 2008, they filed their Motion  
7 seeking a preliminary injunction on the grounds they were likely to prevail on the merits of these  
8 issues, and because the balance of hardships tips sharply in their favor. Mot. at 2:3-7.

## 9 **LEGAL STANDARD**

### 10 **I. Preliminary Injunctions under Federal Rule of Civil Procedure 65**

11 Federal Rule of Civil Procedure 65 permits the issuance of a preliminary injunction, the  
12 purpose of which is to preserve the relative positions of the parties until a trial on the merits can be  
13 conducted. *See E. & J. Gallo Winery v. Andina Licores S.A.*, 446 F.3d 984, 990 (9th Cir. 2006);  
14 *LGS Architects, Inc. v. Concordia Homes*, 434 F.3d 1150, 1158 (9th Cir. 2006). A party seeking a  
15 preliminary injunction must show either: (1) a combination of probable success on the merits and the  
16 possibility of irreparable injury, or (2) that serious questions are raised and the balance of hardships  
17 tips sharply in its favor. *Faith Ctr. Church Evangelistic Ministries v. Glover*, 462 F.3d 1194, 1201-  
18 02 (9th Cir. 2006), *amended and superseded on denial of reh'g* by 480 F.3d 891 (9th Cir. 2007),  
19 *cert. denied*, 128 S.Ct. 143 (2007). These two formulations represent two points on a sliding scale  
20 in which the required degree of irreparable harm increases as the probability of success decreases.  
21 *LGS Architects*, 434 F.3d at 1155; *see also Harper v. Poway Unified Sch. Dist.*, 445 F.3d 1166, 1174  
22 (9th Cir. 2006) (the greater the relative hardship to the moving party, the less probability of success  
23 must be shown to support the grant of a preliminary injunction).

24 Under the sliding scale theory, a party seeking an injunction "need not demonstrate that he

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25  
26 <sup>11</sup> By stipulation, the parties agreed to a voluntary limitation on operations at the BSL-3 facility  
27 for 60 days, pending this Court's ruling on the preliminary injunction. Mot. at 10 n.1. This  
28 limitation requires: (a) no aerosol testing; (b) no rodent infection experiments; (c) no production,  
generation, or knowing receipt of genetically modified biological material that would require  
management of the facility at the BSL-3 level; and (d) the total amount of agents in the facility for  
which BSL-3 containment is recommended in *Biosafety* shall not exceed 100 ml. *Id.*

1 will succeed on the merits, but must at least show that his cause presents serious questions of law  
2 worthy of litigation.” *Topanga Press, Inc. v. City of Los Angeles*, 989 F.2d 1524, 1528 (9th Cir.  
3 1993), *cert. denied*, 511 U.S. 1030 (1994). Additionally, in cases where the public interest may be  
4 affected, the court must consider the public interest as a factor in balancing the hardships. *Harris v.*  
5 *Bd. of Supervisors*, 366 F.3d 754, 760 (9th Cir. 2004).

6 While a preliminary injunction will not be issued without security by the applicant under  
7 Federal Rule of Civil Procedure 65(c), a district court has wide discretion in setting the amount of a  
8 bond, and the bond amount may be zero if there is no evidence the party will suffer damages from  
9 the injunction. *See Conn. Gen. Life Ins. Co. v. New Images of Beverly Hills*, 321 F.3d 878, 882 (9th  
10 Cir. 2003).

## 11 **II. The National Environmental Policy Act of 1969 (NEPA)**

12 As the Supreme Court has held, the NEPA, 42 U.S.C. § 4321 *et seq.*:

13 does not work by mandating that agencies achieve particular substantive  
14 environmental results. Rather, NEPA promotes its sweeping commitment to “prevent  
15 or eliminate damage to the environment and biosphere” by focusing Government and  
16 public attention on the environmental effects of proposed agency action. 42 U.S.C.  
17 § 4321. By so focusing agency attention, NEPA ensures that the agency will not act  
18 on incomplete information, only to regret its decision after it is too late to correct.  
19 *See Robertson*, 490 U.S., at 349, 109 S.Ct., at 1845. Similarly, the broad  
20 dissemination of information mandated by NEPA permits the public and other  
21 government agencies to react to the effects of a proposed action at a meaningful time.

22 *Marsh v. Or. Natural Res. Council*, 490 U.S. 360, 371 (1989).

23 “NEPA has twin aims. First, it places upon an agency the obligation to consider every  
24 significant aspect of the environmental impact of a proposed action. Second, it ensures that the  
25 agency will inform the public that it has indeed considered environmental concerns in its  
26 decisionmaking process.” *Balt. Gas & Elec. Co. v. NRDC*, 462 U.S. 87, 97 (1983) (internal citations  
27 and quotation marks omitted).

28 In this regard, EISs are required by 42 U.S.C. § 4332(C), which mandates all federal

1 agencies:

2 include in every recommendation or report on proposals for legislation and other  
3 major Federal actions significantly affecting the quality of the human environment, a  
4 detailed statement by the responsible official on--

5 (i) the environmental impact of the proposed action,

6 (ii) any adverse environmental effects which cannot be avoided should  
7 the proposal be implemented,

8 (iii) alternatives to the proposed action,

9 (iv) the relationship between local short-term uses of man's  
10 environment and the maintenance and enhancement of long-term productivity, and

11 (v) any irreversible and irretrievable commitments of resources which  
12 would be involved in the proposed action should it be implemented.

13 42 U.S.C. § 4332(C) (emphasis added).

14 In order to determine whether a major federal action will significantly affect the quality of  
15 the human environment, and require an EIS, an agency prepares an EA. 10 C.F.R. § 1021.321;<sup>12</sup> 40  
16 C.F.R. § 1508.9.<sup>13,14</sup> If the agency determines a proposed action will not significantly affect the  
17 quality of the human environment, no EIS is required, and the agency instead issues a FONSI. 40  
18 C.F.R. § 1508.9.

### 19 **III. Judicial Review under the Administrative Procedure Act (APA)**

20 \_\_\_\_\_  
21 <sup>12</sup> Section 1021.321(b) of title 10 states, in part, "A DOE EA shall serve the purposes identified  
22 in 40 CFR 1508.9(a), which include providing sufficient evidence and analysis for determining  
whether to prepare an EIS or to issue a FONSI."

23 <sup>13</sup> Section 1508.9 of title 40 states:  
"Environmental Assessment":

24 (a) Means a concise public document for which a Federal agency is  
responsible that serves to:

25 (1) Briefly provide sufficient evidence and analysis for determining  
whether to prepare an environmental impact statement or a finding of no significant  
26 impact [FONSI].

27 (2) Aid an agency's compliance with the Act when no environmental  
impact statement is necessary.

28 (3) Facilitate preparation of a statement when one is necessary.

<sup>14</sup> All citations to the Code of Federal Regulations are for the 2008 edition.

1           Because the NEPA does not create a private right of action, Plaintiffs’ challenges to DOE  
2 action is governed by the Administrative Procedure Act (the “APA”), 5 U.S.C. § 701 *et seq.* See  
3 *Lujan v. Nat’l Wildlife Fed’n*, 497 U.S. 871, 882 (1989). The APA provides that a “person suffering  
4 legal wrong because of agency action, or adversely affected or aggrieved by agency action within  
5 the meaning of the relevant statute, is entitled to judicial review thereof.” 5 U.S.C. § 702.

6           The APA, however, limits the scope of judicial review of agency actions. In general, a court  
7 may not set aside an agency’s action unless it was “arbitrary and capricious, an abuse of discretion,  
8 or otherwise not in accordance with the law.” *Id.* § 706(2)(A); *Marsh*, 490 U.S. at 378. In making  
9 this determination, a court “ ‘must consider whether the decision was based on a consideration of the  
10 relevant factors and whether there has been a clear error of judgment.’ ” *Marsh*, 490 U.S. at 378  
11 (quoting *Citizens to Preserve Overton Park, Inc. v. Volpe*, 401 U.S. 402, 416 (1971), *abrogated on*  
12 *other grounds by Califano v. Sanders*, 430 U.S. 99, 105 (1977)). “This inquiry must ‘be searching  
13 and careful,’ but ‘the ultimate standard of review is a narrow one.’ ” *Id.* In reviewing an agency’s  
14 action, a court must be “highly deferential” to the agency; and, a court “may not set aside agency  
15 action as arbitrary or capricious unless there is no rational basis for the action.” *Friends of the*  
16 *Earth v. Hintz*, 800 F.2d 822, 831 (9th Cir. 1980).

17           In a NEPA challenge, a court may not “substitute [its] judgment for that of the agency  
18 concerning the wisdom or prudence of a proposed action.” *Laguna Greenbelt, Inc. v. U.S. Dep’t of*  
19 *Transp.*, 42 F.3d 517, 523 (1994). Under the NEPA, an agency is not required “to elevate  
20 environmental concerns over other appropriate considerations.” *Balt. Gas & Elec. Co.*, 462 U.S.  
21 at 97. An agency need only take a “hard look” at the environmental consequences before taking a  
22 major action. *Id.* And, a court’s deferential “scope of review does not enable [it] to decide whether  
23 [it] would have given the same hard look and reached the same conclusion.” *Kettle Range*  
24 *Conservation Group v. U.S. Forest Serv.*, 147 F.3d 1155, 1157 (9th Cir.1998).

25           Nonetheless, a court “must determine whether the agency articulated a rational connection  
26 between the facts found and the choice made.” *Ariz. Cattle Growers’ Ass’n v. U.S. Fish & Wildlife*  
27 *Serv.*, 273 F.3d 1229, 1236 (9th Cir. 2001). Further, a court “must not ‘rubber-stamp . . .  
28 administrative decisions that they deem inconsistent with a statutory mandate or that frustrate the



1 congressional policy underlying a statute.’ ” *Id.* (citing *NLRB v. Brown*, 380 U.S. 278, 291-92  
2 (1965)).

3 Lastly, “an agency must have discretion to rely on the reasonable opinions of its own  
4 qualified experts even if, as an original matter, a court might find contrary views more persuasive.”  
5 *Marsh*, 490 U.S. at 378; *see also Friends of Endangered Species, Inc. v. Jantzen*, 760 F.2d 976, 986  
6 (9th Cir. 1985) (“[N]or does NEPA require us to resolve disagreements among various scientists as  
7 to methodology”); *Life of Land v. Brinegar*, 485 F.2d 460, 472 (“disagreement among experts will  
8 not serve to invalidate an EIS”); *Webb v. Gorsuch*, 699 F.2d 157, 160 (4th Cir. 1983) (“When there  
9 is conflicting expert opinion, it is for the administrative agency and not the courts to resolve the  
10 conflict.”).

## 11 ANALYSIS

12 Plaintiffs plead four counts against defendants in their Complaint: (1) failure to prepare an  
13 adequate EA and FONSI, (2) failure to prepare an EIS, (3) failure to supplement and circulate their  
14 REA, and (4) failure to publicly circulate their FONSI. Mot. at 11:15-19.

### 15 I. Failure to prepare an adequate Environmental Assessment and Finding of No 16 Significant Impact

17 Plaintiffs assert that the DOE had no authority to issue a FONSI, because the terrorism  
18 analysis in the FREA is “grossly deficient.” Mot. at 12:12:23-24. They claim this is because the  
19 DOE failed to take a “hard look” at this issue, which is an abuse of discretion under the NEPA. *Id.*  
20 at 12:24-26. Plaintiffs note that, under 10 C.F.R. § 1021.322, the “DOE shall prepare a FONSI only  
21 if the related EA supports the finding that the proposed action will not have a significant effect on  
22 the human environment. If a required DOE EA does not support a FONSI, DOE shall prepare an  
23 EIS . . . .” 10 C.F.R. § 1021.322. In support of their position, plaintiffs raise a number of  
24 arguments. As discussed below, however, the Court finds that plaintiffs fail to show it was arbitrary  
25 and capricious for the DOE to issue the FREA or a FONSI, and finds that none of their arguments  
26 support their assertion that the DOE failed to take a hard look at the issue of intentional destructive  
27 acts.

### 28 A. Using an accident scenario as a bounded analysis for an intentional destructive

1                   **act.**

2                   Plaintiffs first assert that the DOE’s terrorism analysis is flawed, because it is based on a  
3 bounded event, the Release Scenario, which is an *accident*, rather than an *intentional destructive act*.  
4 Mot. at 13:8-28. Specifically, plaintiffs assert that the 2006 Guidelines Memo cautions that  
5 “accident scenarios may not fully encompass potential threats posed by intentional destructive acts.”  
6 *Id.* at 13:15-16. They also assert that the DOE’s 2002 *Recommendations for Analyzing Accidents*  
7 *under the NEPA* (the “Recommendations”), *see* Pls.’ Ex. “16”; Defs.’ Ex. “8,” require document  
8 preparers to develop realistic accident scenarios by considering a reasonable range of events,  
9 including those with a low probability of occurrence, but high consequences, and those with a high  
10 probability of occurrence, but low consequences. Mot. at 13:17-24.

11                   In opposition, defendants note that the Guidelines Memo expressly provides that accident-  
12 based scenarios may be appropriate “for many, if not most, situations where the potential sabotage  
13 or terrorist scenarios and the accident scenarios involve similar physical initiating events or  
14 forces[,]” and encourages decision-makers to “explicitly consider whether the accident scenarios are  
15 truly bounding of intentional destructive acts.” Opp’n at 12:7-12. Defendants assert that the DOE  
16 did this, and having determined the Release Scenario was the proper bounded event for the *forces*  
17 *and damage* generated by earthquakes, accidental plane crashes, *et seq.*, it then also determined it  
18 was the proper bounded event for intentional destructive acts, because they would generate the same  
19 *forces and damage*. *Id.* at 12:12-16.

20                   Plaintiffs assert that the DOE should not use a “bounding” analysis, because the  
21 Recommendations warn it could “mask differences among alternatives and be less informative about  
22 the potential need for mitigation” *Id.* at 13:24-26. They argue that the Recommendations say this  
23 occurs because bounding “analyses are utilized by NEPA document preparers to compensate for  
24 analytical uncertainty by using conservative approaches that overestimate potential impacts.” *Id.*  
25 at 13:26-28.

26                   In opposition, defendants respond that the Recommendations expressly provide for  
27 bounding. Opp’n at 12:17-21. They assert that the Recommendations merely compare the merits of  
28 bounding analyses with other scenarios. *Id.* at 12:18-19. Further, they argue that the

1 Recommendations suggest a bounding analysis may be appropriate in circumstances—such as this  
2 case—where there is “analytical uncertainty.”<sup>15</sup> *Id.* at 12:19-21.

3 Defendants also discuss Attachment 1 to the Recommendations, which addresses “intentional  
4 destructive acts,” and how *accident analyses and bounding* may be used to analyze them. *Id.*  
5 at 21-23. In this regard, Attachment 1 advises that document preparers may compare accidents to  
6 intentional acts, if the consequences, i.e., damaging forces, are similar. *Id.* Thus, defendants note  
7 that the DOE has used bounding analysis to analyze the effects of a plane accidentally crashing into  
8 a rail cask of spent nuclear fuel, in order to also protect it against sabotage generating similar  
9 destructive forces. *Id.* at 12:17-23.

10 In reply, plaintiffs assert that it is “eminently reasonable to question whether the  
11 consequences [of] malicious acts deliberately designed to breach containment are truly bounded by  
12 the accidents and natural events analysis evaluated in the original EA . . . .” Reply at 8:15-17.

13 Having considered the parties’ argument, the Court finds that plaintiffs have failed to show  
14 that the DOE acted arbitrarily or capriciously. First, unlike agency regulations issued pursuant to  
15 notice and comment rule-making, and published in the Code of Federal Regulations, internal agency  
16 guidance documents, such as the Recommendations and the Guidelines, are not legally enforceable.  
17 *W. Radio Serv. v. Espy*, 79 F.3d 896, 901-02 (9th Cir. 1996). That is, while an agency is generally  
18 bound by its “regulations,” it is not generally bound by its “internal guidelines.” *Id.* Thus, had the  
19 DOE failed to follow the Recommendations or the Guidelines, the Court would not have the  
20 authority to hold the DOE acted arbitrarily or capriciously.

21 That said, however, if the Recommendations and Guidelines had the force of law, the Court  
22 would, nevertheless, find that the DOE’s actions in analyzing the potential impact of terrorist  
23 attacks, were not arbitrary or capricious. The DOE developed a bounding analysis for earthquakes  
24 and accidental plane crashes in its initial EA, then applied that analysis to intentional destructive  
25 acts in the FREA, as the DOE determined the *destructive forces* generated by the unintentional and  
26

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27 <sup>15</sup> The Court notes the Recommendations also state these analyses could be more defensible  
28 than more realistic approaches as they are unlikely to *underestimate* potential accident  
consequences. *Recom.* at 5.

1 intentional incidents were similar. The DOE clearly took a “hard look” at the issue of whether and  
2 how to use bounding analyses and whether and how to use the Release Scenario to analyze the  
3 impact of potential terrorist attacks. *Balt. Gas & Elec. Co.*, 462 U.S. at 97. As such, it did not act  
4 arbitrarily or capriciously, and neither the parties nor the Court may substitute their judgment for the  
5 DOE’s. *Laguna Greenbelt*, 42 F.3d 517, 523 (1994). Thus, the Court finds plaintiffs have not  
6 shown they would likely prevail on the merits of this issue, nor have they presented a serious  
7 question of law worthy of litigation in its regard. *Topanga Press*, 989 F.2d at 1528.

8 **B. Using two HEPA filters in the Release Scenario.**

9 In attacking the DOE’s terrorism analysis, plaintiffs assert that because a terrorist attack  
10 would breach the facility’s walls, it is unreasonable for the DOE to base a release from such an  
11 attack on the Release Scenario, which assumes any release would pass through two 95 percent  
12 efficient HEPA filters. *Id.* at 14:1-7. In opposition, defendants assert that the facility’s negative air  
13 pressure system would draw in outside air, in the event of a breach. *Opp’n* at 13:3-8. In reply,  
14 plaintiffs assert that terrorists could take out the power, preventing the negative pressure system  
15 from functioning. *Reply* at 8:19-9:4.

16 The Court notes that plaintiffs appear to present two separate arguments. First, they appear  
17 to argue that the DOE fails to consider that a terrorist attack could cause a “double failure” of both  
18 the HEPA filters and the negative pressure system. With regards to this argument, the Court makes  
19 two observations. First, there is no evidence that the DOE ignored the possibility of a “double  
20 failure.” To the contrary, the fact that the DOE has a filter system and a negative pressure system in  
21 place, shows that they have considered the need for both systems. Further, in the event that main  
22 and backup power were lost, zone-tight dampeners would seal the air circulation system. *FREA* at  
23 17. Thus, the DOE has provided a contingency for a “double failure.” As such, the Court finds that  
24 the DOE considered the relevant factors involved in a possible “double failure,” *Marsh*, 490 U.S. at  
25 378, and rationally responded to this possibility, *Friends of the Earth*, 800 F.2d at 831.

26 Second, the Court notes that it would be difficult, if not impossible or cost-prohibitive, to  
27 render the BSL-3 facility impervious to all possible terrorist attack scenarios. The  
28 Recommendations and the Guidelines Memo only require the DOE to consider a reasonable range of

1 attacks, and the possible destructive forces they would generate. The DOE need not consider any  
2 “worst-case” scenarios. The decision as to where various potential attacks fall on the reasonableness  
3 spectrum is entrusted to the DOE’s experts, whose reasonable opinion this Court may not reverse,  
4 even if more persuasive “what if . . .” opinions are presented to it. *Marsh*, 490 U.S. at 378. Thus, as  
5 long as the DOE took a “hard look” at possible terrorist attack scenarios, *Balt. Gas & Elec. Co.*, 462  
6 U.S. at 97, this Court will defer to its judgment, *Laguna Greenbelt*, 42 F.3d at 523.

7 Plaintiffs’ second apparent argument is that the DOE failed to consider how a “double  
8 failure” attributable to a terrorist attack might result in a larger release than contemplated by the  
9 Release Scenario. With regards to this argument, the Court makes two observations. First, in the  
10 initial EA, the DOE considered the dual-HEPA filtration system, the negative pressure system, and  
11 the zone-tight dampening system, in adopting the Release Scenario as a bounded event for  
12 earthquakes, accidental plane crashes, *et seq.* Docket No. 19, Ex. “1” at 12, 12 n.9, 17-18; FREA  
13 at 51-54. Thus, in the initial EA, the DOE determined that despite a possible “double failure,” the  
14 forces generated by a reasonably foreseeable accident or natural occurrence would not result in a  
15 release in excess of the Release Scenario. Both this Court and the Ninth Circuit approved the initial  
16 EA. Then, in the FREA, the DOE considered the dual-HEPA filtration system, the negative pressure  
17 system, and the zone-tight dampening system, in adopting the Release Scenario as a bounded event  
18 for terrorist attacks. FREA at 13, 13 n.11, 17, 59-61. In part I.A *supra*, this Court approved this  
19 adoption as the DOE’s experts rationally determined a reasonably foreseeable terrorist attack on the  
20 facility would generate the *same forces* as a reasonably foreseeable accident or natural catastrophe.  
21 Thus, in essence, this Court has also approved the DOE’s determination in the FREA that despite a  
22 possible “double failure,” the forces generated by a reasonably foreseeable terrorist attack would not  
23 result in a release in excess of the Release Scenario.

24 Second, the Court notes that plaintiffs appear to misunderstand the purpose of the Release  
25 Scenario. They appear to argue that it is a poor model for the release a terrorist attack would  
26 generate, because a terrorist would not simply load a centrifuge with loosely capped tubes. As just  
27 discussed, however, the Release Scenario is not intended to mimic any specific type of terrorist  
28 attack. Rather, it simply models the bounded conditions for a release due to a loss of containment

1 attributable to an accident, a natural catastrophe, or a terrorist attack.

2 In conclusion, the DOE took a hard look at the Release Scenario, and it did not arbitrarily  
3 utilize two 95 percent efficient HEPA filters in its analysis. *Balt. Gas & Elec. Co.*, 462 U.S. at 97.  
4 Thus, the DOE did not act arbitrarily or capriciously. *Marsh*, 490 U.S. at 378. As such, the Court  
5 finds that plaintiffs have not shown that they would likely prevail on the merits of this issue, nor  
6 have they presented a serious question of law worthy of litigation in regards to it. *Topanga Press*,  
7 989 F.2d at 1528.

8 **C. The Mitigators of Fire, Heat, Sunlight, Bleach, *et seq.***

9 In addition to challenging the DOE’s use of the HEPA filters in the Release Scenario,  
10 plaintiffs assert that it was unreasonable for the DOE to assume “heat, fire, sunlight, wind, or  
11 *exploding containers of disinfectant*” would kill pathogens. *Id.* at 14:7-10 (emphasis in original). In  
12 opposition, defendants note that plaintiffs draw support for their argument from a declaration  
13 alleging that the BSL-3 facility would work with “weaponized” bioagents, which are designed for  
14 release in explosives and thus resistant to relatively high temperatures. Opp’n at 13:8-10.  
15 Defendants respond that the facility will not work with these agents. *Id.* at 13:10-11.

16 The Court notes that plaintiffs’ declarant did *not* make a statement regarding the facility’s  
17 mission, but merely said that she “heard” that “bio-weapons . . . contain an explosive mechanism to  
18 spread the pathogens. Some biological agents may die in an explosion, but some may be spread by  
19 it.” Docket No. 13, Ex. “2” ¶ 39 (Decl. of Marylia Kelley (“Kelley” Decl.)). Further, the  
20 declarant’s statements are clearly not premised on personal knowledge and are both speculative and  
21 inadmissible hearsay. Thus, based on the parties’ arguments, the Court finds that plaintiffs have  
22 failed to show the DOE’s assumption is unreasonable. Consequently, it also finds that plaintiffs are  
23 not likely to prevail on the merits of this issue, nor have they stated a serious question of law in its  
24 regard. *Topanga Press*, 989 F.2d at 1528.

25 **D. The Release Scenario’s Dispersion Model**

26 Plaintiffs question the DOE’s conclusion that “[a]dverse health effects to uninvolved workers  
27 in adjacent buildings or the public would be extremely unlikely to develop from” the Release  
28 Scenario, given LLNL employs 8,000 persons in a 1.3-square-mile or 821-acre area. Mot.

1 at 14:10-14. Defendants respond that this conclusion was based on the Release Scenario showing a  
2 concentration of less than 1/10th  $HID_{50}$  per liter of air, at a distance of 125 feet from release. *Id.*  
3 at 14:1-4. The only support plaintiffs provide for their argument is that in 1979 an anthrax release  
4 occurred in Sverdlovsk, in the former Soviet Union, which killed 100 people when an operator at a  
5 military microbiology facility removed a HEPA filter but did not replace it. *See* Docket No. 13,  
6 Ex. “3” ¶¶ 7-9 (Decl. of Mark Wheelis, Ph.D. (“Wheelis” Decl.)).

7 For three reasons the Court finds this incident does not show the DOE acted arbitrarily or  
8 capriciously in using the Release Scenario to determine adverse health effects resulting from a loss  
9 of containment. First, plaintiffs do not indicate whether the BSL-3 facility will work with similar  
10 amounts or concentrations of anthrax as involved in the Sverdlovsk release. Second, this incident  
11 was an accident, not a terrorist attack. And, this Court and the Ninth Circuit previously approved  
12 the EA with regards to its accident analysis. Finally, plaintiffs may not meet their burden merely by  
13 positing possible attack scenarios, even if this Court were to consider this incident as a possible  
14 terrorist attack scenario. Thus, the Court finds plaintiffs have failed to show the DOE arbitrarily or  
15 capriciously used the Release Scenario to determine the likelihood with which uninvolved workers  
16 in adjacent buildings or the public would develop adverse health effects due to a release. *Marsh*,  
17 490 U.S. at 378. As such, plaintiffs are not likely to prevail on the merits of this issue, nor have they  
18 stated a serious question of law in regards to it. *Topanga Press*, 989 F.2d at 1528.

#### 19 **E. The Release Scenario’s Dispersion Radius**

20 Plaintiffs state that “the terrorism analysis is deficient because it fails to adequately analyze  
21 the consequences of a release of pathogenic material on Livermore Lab’s employees, the over  
22 81,000 residents of the City of Livermore, and the approximately 7 million individuals living within  
23 a 50-mile radius of LLNL.” Mot. at 14:20-24. Plaintiffs assert that this is because the DOE uses the  
24 Release Scenario which unreasonably relies on any release passing through two HEPA filters and/or  
25 being mitigated by fire, heat, sunlight, or exploding disinfectant. *Id.* at 14:24-27. Further, plaintiffs  
26 assert that the DOE unreasonably fails to consider a terrorist attack which only seeks to lightly  
27 damage the BSL-3 facility, without producing a fire. *Id.* at 14:27-15:4.

28 Issues related to the HEPA filters and the mitigating factors have been resolved in

1 defendants' favor. As for plaintiffs' "light attack" theory, again, plaintiffs cannot meet their burden  
2 solely by advancing "what if . . ." scenarios. Further, defendants counter in their Opposition, that  
3 the "DOE's assumption that any direct attack severe enough to compromise these multiple layers of  
4 containment would also involve explosion and fire is a reasonable one." Opp'n at 13:21-23.  
5 Further, "[t]he question of the most likely attack scenario is a matter of expertise in which the  
6 Agency's experts are due deference." *Id.* at 13:15-17.

7 The Court defers to the DOE's experts, *Marsh*, 490 U.S. at 378, and finds plaintiffs have not  
8 shown that the DOE failed to take a "hard look" at any of these issues, *Balt. Gas & Elec. Co.*, 462  
9 U.S. at 97. Thus, they have not shown they would likely prevail on the merits of any them, and they  
10 have not stated a serious question of law in regards to them. *Topanga Press*, 989 F.2d at 1528.

#### 11 **F. Inoculations and Medical Treatment**

12 Plaintiffs assert that defendants unreasonably assume that "diagnostic testing and medical  
13 treatment will be immediately available to those whose health is endangered by a release of deadly  
14 bioagents." Mot. at 15:5-7. In particular, plaintiffs assert that defendants' reliance on post-release  
15 inoculations fails to consider a release involving multiple pathogens, or pathogens which are  
16 difficult to detect, do not immediately cause illness, or are genetically modified to withstand  
17 antibiotics. *Id.* at 15:7-17.

18 In opposition, defendants assert that the FONSI was not issued because of the availability of  
19 "immediate" medical treatment. Opp'n at 13:25-14:1. Defendants assert it was issued, in part,  
20 because according to the Release Scenario, agent concentrations drop to negligible amounts at or  
21 beyond 125 feet from the point of release. *Id.* at 14:1-4. Thus, defendants assert that although the  
22 agents used in the facility are amenable to treatment, and that local health care providers are briefed  
23 regarding such treatment, the FONSI was not issued on this basis. *Id.* at 14:4-7. As for the genetic  
24 modification argument, defendants state that "[s]uch work is closely regulated, and any experiment  
25 proposing to transfer a drug resistant trait to a microorganism requires specific approval by the  
26 NIH." *Id.* at 14:7-10.

27 Plaintiffs present two arguments in reply. First, they assert that "the facility is intended, in  
28 part, to perform testing and bioforensic analysis of pathogenic material released in a terrorist



1 attack.”<sup>16</sup> Reply at 9:10-13. Second, they assert that the facility might “test threat bioagents ‘for  
2 antibiotic susceptibility which could lead to additional deaths by not providing appropriate  
3 therapeutics.’ ”<sup>17</sup> *Id.* at 9:13-15. Plaintiffs thus assert that the DOE’s medical treatment analysis  
4 was faulty, having failed to account for such agents.

5 Defendants respond to plaintiffs’ concerns by noting that the Release Scenario’s dispersion  
6 model clearly shows there is apparently little to no need for any medical treatment at or beyond  
7 125 feet from the point of release.<sup>18</sup> Further, contrary to plaintiffs’ allegations, defendants indicate  
8 in the EA that inoculations and medical treatment could be utilized within *hours* of release, not  
9 *immediately*. Thus, for the reasons discussed in parts I.D and I.E *supra*, addressing the Release  
10 Scenario’s dispersion model, the Court finds plaintiffs have not shown they would likely prevail on  
11 the merits of this issue, nor have they stated a serious question of law in its regards, *Topanga Press*,  
12 989 F.2d at 1528.

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14 <sup>16</sup> Plaintiffs cite to defendants’ Exhibits “10” and “11” in support of this statement.  
15 Exhibit “10,” however, merely indicates the facility will test agents from the DHS’ BioWatch  
16 program which collects air samples from “key urban areas across the country for the purpose of  
17 detecting a potential release of a terrorist related biological agent.” Docket No. 12, Ex. “10” ¶ 3  
18 (Decl. of Jeffrey Steifel (“Steifel Decl.”)). It does not discuss antibiotic resistant agents.

17 As for Exhibit “11,” it consists of five short paragraphs of biotech defense terms which are  
18 not models of clarity. *See id.*, Ex. “11” (Decl. of Susan Elizabeth George). For example:

18 [The Chemical and Biological Division (“CBD”) of the Science and  
19 Technology directorate of the DHS] has an active R&D program in biological  
20 surveillance and detection which will require BSL-3 capability to better understand  
21 the potential influence of virulence, viability, and countermeasures resistance markers  
22 in the near term and those of the advanced threat in the far term. The resulting high  
23 impact markers will be developed into next generation detection systems. [LLNL] is  
24 one of three DOE national laboratories that has self identified as a CBD provider  
25 through the Under Secretary’s process.

22 Docket No. 12, Ex. “11” ¶ 2 (Decl. of Susan Elizabeth George).

23 <sup>17</sup> Plaintiffs misquote Exhibit “10.” The full version of the quote defendants provide is:  
24 Without the addition of the LLNL BSL-3 level laboratory, there is the potential to  
25 significantly delay the scientific scrutiny of the identified agent that could impact  
26 responses and mitigation to a bioterrorism event. For example, the ability to test *for*  
27 *antibiotic susceptibility which could lead to additional deaths by not providing*  
28 *appropriate therapeutics.*

26 Steifel Decl. ¶ 4 (plaintiffs’ quoted portion in italics).

27 Thus, the declaration does not discuss the BSL-3 working with resistant agents, but rather,  
28 identifying a given agent’s *non-resistant properties* to provide effect antibiotic therapy.

28 <sup>18</sup> Defendants’ observations regarding the close regulation regarding transferring drug  
resistancy are non-responsive, however.

1           **G. The difficulty of obtaining agents from LLNL’s BSL-3 facility versus natural**  
2           **sources or other BSL-3 facilities.**

3           Plaintiffs assert that it is unreasonable for the DOE to assert that because its pathogens are  
4 readily available from naturally occurring sources, the BSL-3 facility is not a relatively attractive  
5 terrorist target. Mot. at 15:18-21. Characterizing this as a “bald” assertion, plaintiffs claim that the  
6 facility would be tempting to terrorists, as it could produce agents not found in nature, would have  
7 agents that could be used as bioweapons, would have agents in amounts and concentrations not  
8 found in nature, and would possess relatively virulent strains of agents, like the Vollum strain of  
9 anthrax. *Id.* at 15:21-16:4.

10           Defendants respond that “[a] dispute over whether a terrorist would prefer to attempt to steal  
11 from a heavily guarded federal facility or to collect samples from unguarded domestic livestock  
12 operations, is a question of expertise as to which DOE is entitled to rely on its expertise in  
13 biosecurity issues.” Opp’n at 15:1-6. Further, they note that the DOE’s assessment of the facility’s  
14 relative un/attractiveness also turns on the fact that it is substantially more secure than hundreds of  
15 other BSL-3s located across the country.<sup>19</sup> *Id.* at 15:6-10.

16           In reply, plaintiffs essentially assert that LLNL’s BSL-3 facility would not be the same as  
17 these hundreds of other BSL-3s, which would make it more attractive to terrorists. Specifically,  
18 they assert that defendants’ own declaration states that as part of a national biodefense response  
19 network, the facility “ ‘will have confirmatory assays, approved sampling methods, and  
20 authorization to work with multiple agents of concern’ to the [DHS], which ‘is not the case for most  
21 BSL-3 laboratories in the country.’ ” Reply at 9:21-24. Further, plaintiffs allege that the facility  
22 would work with “bioagents used in terrorist attacks, which would likely be weaponized to some  
23 degree,”<sup>20</sup> *id.* at 10:4-6, and would store or aerosolize greater quantities of agents than other BSL-3

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25 <sup>19</sup> Defendants also claim that “[t]here is no difference in kind or concentration between the  
26 agents that may be used at the LLNL BSL-3 and those used at other BSL-3 facilities.” Opp’n at 15  
27 n.8. The cited source, however, only provides support for BSL-3 facilities in *the Bay Area*. See *id.*;  
Hofherr Decl. ¶ 9.

28 <sup>20</sup> The Court notes that plaintiffs’ declarant states, “[a]erosolization of select agents is a form of  
weaponizing . . . bioagents . . . .” Wheelis Decl. ¶ 6. He does not say that all aerosolized agents are  
“weaponized to some degree,” as plaintiffs assert. Further, the FREA states while the BSL-3 will

1 facilities,<sup>21</sup> *id.* at 10:6-8.

2 This Court must defer to the DOE's experts, even in the face of contrary opinions from  
3 plaintiffs' experts. *Marsh*, 490 U.S. at 378. Further, contrary to plaintiffs' claim, the FREA shows  
4 that the DOE took a hard look at the issue of collecting and capturing pathogens from natural  
5 sources. *See* FREA at 62-63; *Balt. Gas & Elec. Co.*, 462 U.S. at 97. Likewise, it carefully assessed  
6 whether its BSL-3 facility was more secure than hundreds of others throughout the country. *See*  
7 FREA at 61; *Balt. Gas & Elec. Co.*, 462 U.S. at 97. Thus, there is no legal significance to any  
8 distinctions between LLNL's BSL-3 and other BSL-3s. The Court finds that plaintiffs would not  
9 likely prevail on the merits of this issue, nor have they stated a serious question of law in its regard.  
10 *Topanga Press*, 989 F.2d at 1528.

11 **H. The alleged failure to analyze a release which would disrupt the entire Bay Area.**

12 Plaintiffs note that the FREA discusses the dramatic health impacts and economic disruption  
13 occasioned by the mailing of anthrax in 2001. *Mot.* at 16:9-11. They assert that the DOE failed to  
14 consider how a release from the BSL-3 could cause the evacuation of the LLNL, the closure of  
15 nearby Interstate 580, and "unprecedented economic disruption throughout the San Francisco Bay  
16 Area and the United States." *Id.* at 16:12-15. Defendants again point to the Release Scenario's  
17 dispersion model, which shows negligible concentrations at 125 feet. *Opp'n* at 14-16. The Court  
18 finds defendants' response adequate. Further, for the same reasons discussed in parts I.D and I.E  
19 *supra*, the Court finds that plaintiffs would not likely prevail on the merits of this issue, nor have  
20 they stated a serious question of law in its regard. *Topanga Press*, 989 F.2d at 1528.

21 \_\_\_\_\_  
22 use a commonly available nebulizer for rodent challenge studies, where a rodent is "challenged"  
23 with an aerosolized agent, FREA at 45, it will not have any equipment for creating "milled"  
weaponized agents, nor would it be legally allowed to do so, FREA App. "C" at C-23 para 2.

24 <sup>21</sup> The Court notes that plaintiffs' expert states, in part:

25 At the proposed LLNL BSL-3 facility, the quantities, concentrations, the  
26 genetic modification of and the aerosolization of biological select agents are  
27 distinctly different than at most BSL-3 facilities in hospitals, universities, and other  
civilian research organizations in California and the country. LLNL is a military  
laboratory with a major portion of its budget devoted to the design and development  
of nuclear weapons.

28 *Wheeler Decl.* ¶ 5.

The expert provides no support for his conclusion, nor does the first sentence draw support from the second.

1           **I.       Summary**

2           Based on the evidence presented, the Court finds that the DOE took a hard look at the  
3 potential environmental impact of an intentional destructive act on the BSL-3 facility. Thus,  
4 plaintiffs have not shown they would likely prevail on the allegation that the DOE improperly  
5 prepared the FREA or issued the FONSI. The Court further finds that plaintiffs have failed to  
6 present any serious questions of law in regards to these two acts.<sup>22</sup>

7           **II.     Failure to Prepare an Environmental Impact Statement**

8           Plaintiffs fail to show that the DOE acted arbitrarily and capriciously in failing to prepare an  
9 EIS. They contend that the DOE should have prepared an EIS under 42 U.S.C. § 4332(2)(C). Mot.  
10 at 16:23-26. This section requires an EIS for “major Federal actions significantly affecting the  
11 quality of the human environment . . . .” 42 U.S.C. § 4332(2)(C). As the Ninth Circuit has held,  
12 “[n]ot every project necessitates an EIS.” *Ocean Advocates v. U.S. Army Corps of Eng’rs*, 402 F.3d  
13 846, 864 (9th Cir. 2005). “Where an EIS is not categorically required, the agency must prepare an  
14 [EA] to determine whether the environmental impact is significant enough to warrant an EIS.” *Id.*  
15 (citing 40 C.F.R. §§ 1501.3, 1508.9). “If the action will significantly affect the environment, an EIS  
16 must be prepared, while if the project will have only an insignificant effect, the agency issues a  
17 FONSI.” *Id.* (citing 40 C.F.R. §§ 1501.3, 1501.4).

18           An EIS must be prepared if “substantial questions” are raised as to whether a project may  
19 cause significant degradation of some human environmental factor. *Id.* A plaintiff need not show  
20 significant effects *will* in fact occur, but need only raise substantial questions as to whether a project  
21 *may* have a significant effect. *Id.* at 864-65. The term “significantly” in § 4332(2)(C) is determined  
22 by evaluating two components: context and intensity. 40 C.F.R. § 1508.27 para. 1; *Ocean*

23 \_\_\_\_\_  
24 <sup>22</sup> The analysis in part I addresses plaintiffs’ arguments directed at the Release Scenario, which  
25 the DOE uses in the FREA to model a release caused by a loss of containment due to a terrorist  
26 attack. In addition to this type of threat, the DOE also considered two other threats in the FREA:  
27 (1) the theft and release of pathogenic material taken by a terrorist from outside LLNL; and (2) the  
28 theft and release of pathogenic material taken by an insider with access to the facility. FREA at 58.  
In their Motion, plaintiffs only address the first scenario. Defendants note this in their Opposition.  
Opp’n at 14:21-15:10. Plaintiffs respond in their Reply by merely repeating certain arguments they  
made in their Motion regarding the Release Scenario. Reply at 10:9-11:22. As the Court addressed  
plaintiffs’ arguments regarding the Release Scenario, in part I, there is no need to revisit them in  
regards to the two theft scenarios.

1 *Advocates*, 402 F.3d at 865. The Court evaluates each of these components, in turn.

2 **A. Context**

3 “Context” refers to the setting in which a proposed action will take place. *Ocean Advocates*,  
4 402 F.3d at 865. As 40 C.F.R. § 1508.27(a) states:

5 Context. This means that the significance of an action must be analyzed in  
6 several contexts such as society as a whole (human, national), the affected region, the  
7 affected interests, and the locality. Significance varies with the setting of the  
8 proposed action. For instance, in the case of a site-specific action, significance would  
9 usually depend upon the effects in the locale rather than in the world as a whole.

10 Both short- and long-term effects are relevant.

11 *Id.*

12 In regards to context, plaintiffs make two arguments which, neither individually nor  
13 collectively, show the BSL-3 facility would “significantly affect[] the quality of the human  
14 environment . . . .” First, plaintiffs assert that a sufficiently large release would have a human and  
15 economic impact, similar to the 2001 mailings of anthrax. Mot. at 17:18-26. Defendants rebut by  
16 correctly noting that the Release Scenario’s dispersion model shows essentially no effect beyond  
17 125 feet from the release point.<sup>23</sup> Opp’n at 16:5-9. The Court agrees, as this issue has been resolved  
18 in defendants’ favor in parts I.D and I.E *supra*.

19 Second, plaintiffs assert that because the DOE determined it should prepare an EIS for a  
20 BSL-3 facility at the Los Alamos National Laboratory (“LANL”) in Los Alamos, New Mexico, the  
21 DOE should prepare one for the BSL-3 facility at LLNL. Mot. at 17:27-18:7. Plaintiffs support this  
22 assertion with two points. First, they note that both LANL and LLNL are classified nuclear  
23 weapons design laboratories. *Id.* at 18:8-9. And second, they note that LANL required additional  
24 seismic analysis even though it was in a less populated area, and allegedly further than LLNL is

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25  
26 <sup>23</sup> Defendants also assert that plaintiffs argument here is barred by res judicata. Defendants  
27 correctly note res judicata bars the relitigation of claims where there is (1) identity of claims;  
28 (2) final judgment on the merits; and (3) identity of privity of the parties. *W. Radio Serv.*, 123 F.3d  
at 1192; Opp’n at 15:26-16:5, 16 n.2. The Court notes, however, while the Ninth Circuit affirmed  
the DOE’s dispersion model for accidental scenarios, plaintiffs are within their rights to challenge it  
anew, in regards to the issue of intentional destructive act scenarios.

1 from a seismic fault. *Id.* at 18:8-18. Defendants counter by noting that after the LANL facility was  
2 built, the DOE determined that its location on fill material on the sloping side of a canyon required  
3 additional seismic analysis. Opp’n at 16:14-17. Defendants thus assert that the need for an EIS at  
4 the LANL is unrelated to any such need at the LLNL. *Id.* at 16:12-13, 17-18. The Court agrees with  
5 defendants’ conclusion that plaintiffs’ comparative argument fails to show the DOE was arbitrary or  
6 capricious in determining not to prepare an EIS for the LLNL facility. *Marsh*, 490 U.S. at 378.  
7 Thus, on the issue of context, the Court finds that plaintiffs have neither shown they would prevail  
8 on its merits at trial, nor have they stated a serious question of law. *Topanga Press*, 989 F.2d  
9 at 1528.

## 10 **B. Intensity**

11 “Intensity” means “the severity of the impact.” 40 C.F.R. § 1508.27(b); *Ocean Advocates*,  
12 402 F.3d at 865. “In considering the severity of the potential environmental impact, a reviewing  
13 agency may consider up to ten factors that help inform the ‘significance’ of a project . . .” *Ocean*  
14 *Advocates*, 402 F.3d at 865. “In certain cases one of these factors may be sufficient to require  
15 preparation of an EIS in appropriate circumstances.” *Id.*

16 In their Motion, plaintiffs assert that defendants violated four intensity factors: (1) The  
17 degree to which the proposed action affects public health or safety, 40 C.F.R. § 1508.27(b)(2);  
18 (2) The degree to which the effects on the quality of the human environment are likely to be highly  
19 controversial, *id.* § 1508.27(b)(4); (3) The degree to which the possible effects on the human  
20 environment are highly uncertain or involve unique or unknown risks, *id.* § 1508.27(b)(5); and  
21 (4) Whether the action threatens a violation of federal, state, or local law or requirements imposed  
22 for the protection of the environment, *id.* § 1508.27(b)(10). As discussed below, none of these  
23 individually or collectively show the BSL-3 facility would “significantly affect[] the quality of the  
24 human environment . . .” The Court addresses each of them in turn.

### 25 **1. The degree to which the proposed action affects public health or safety.**

26 Plaintiffs state that “operation of the proposed BSL-3 facility at LLNL, including the  
27 inadequately studied risks of terrorist attack, accidents, earthquake, and fire, has the potential to  
28 cause significant impacts to public health and safety.” Mot. at 4-6. Defendants correctly note that

1 this Court and the Ninth Circuit have already addressed the DOE’s assessment of issues other than a  
2 terrorist attack. Opp’n at 17:4-7. They also correctly observe that in regards to terrorist attacks, the  
3 study was adequate. *Id.* at 17:7-9. The Court agrees with defendants for the reasons stated in  
4 parts I, and especially I.A, *supra*.

5           **2.       The degree to which the effects on the quality of the human environment**  
6                   **are likely to be highly controversial.**

7           “A proposal is highly controversial when there is ‘a substantial dispute [about] the size,  
8 nature, or effect of the major Federal action rather than the existence of opposition to a use.’ ”  
9 *Anderson v. Evans*, 371 F.3d 475, 489 (9th Cir. 2004) (quoting *Blue Mountains Biodiversity*  
10 *Project v. Blackwood*, 161 F.3d 1208, 1212 (9th Cir. 1998) (quoting *Greenpeace Action v. Franklin*,  
11 14 F.3d 1324, 1335 (9th Cir. 1992))). As the Ninth Circuit has observed:

12                   In [*Found. for N. Am. Wild Sheep v. USDA*, 681 F.2d 1172 (9th Cir. 1982)],  
13 we found a substantial dispute where the agency “received numerous responses from  
14 conservationists, biologists, and other knowledgable [sic] individuals, all highly  
15 critical of the [environmental assessment] and all disputing [its] conclusion. . . .” 681  
16 F.2d at 1182. But in [*Friends of Endangered Species, Inc. v. Jantzen*, 760 F.2d 976  
17 (9th Cir. 1985)], we recognized that where “virtual agreement exists among local,  
18 state, and federal government officials, private parties, and local environmentalists,”  
19 the criticisms of the plaintiff and its experts are not sufficient to demonstrate the  
20 existence of a public controversy. 760 F.2d at 986-87.

21 *Greenpeace Action*, 14 F.3d at 1334 (no misspelling in *Wild Sheep*).

22           Plaintiffs assert that “there are substantial disputes regarding the need for the proposed  
23 facility, the consequences of an accidental or deliberate release of pathogenic material from the  
24 facility, as well as the proposed action’s compliance with the Biological Weapons Convention [the  
25 “BWC”].” Mot. at 15-18. Defendants assert that the issue of whether or not the facility’s effect on  
26 the environment is controversial was resolved in their favor, in the prior litigation. Opp’n at 11-14.

27           Turning first to defendants’ argument, the Court notes the issue of the consequences of an  
28 *accidental* release was addressed in the prior litigation. Defendants thus incorrectly assert the issue

1 of “consequences” was raised in the prior litigation, in regards to *deliberate releases* or a *potential*  
2 *terrorist attack*.

3 Turning to plaintiff’s arguments, the Court finds no evidence in the three declarations to  
4 which they cite which supports their contention that “substantial disputes” surround the issues of the  
5 need for the facility, the consequences of a release, or BWC compliance.<sup>24</sup> On the issue of the  
6 “need” for the facility, however, plaintiffs have presented evidence regarding the rapid and  
7 substantial rise in the number of BSL-3 and BSL-4 facilities since 2001, which is discussed in  
8 part III.D *infra*. While this evidence reveals questions exist regarding how many such facilities are  
9 required in the United States, the existence of these questions does not rise to the level of a  
10 “substantial dispute” regarding the need for LLNL’s BSL-3 facility. Moreover, plaintiffs fail to  
11 establish how the issues of “need” or BWC compliance are directly relevant to resolving the  
12 question of whether the DOE took a hard look at the potential impact of terrorist attacks. At best,  
13 plaintiffs have merely shown that there is opposition to the facility’s operation. Thus, the Court  
14 finds that plaintiffs are not likely to prevail on the issue of controversy, nor have they stated a  
15 serious question of law regarding it. *Topanga Press*, 989 F.2d at 1528.

16 **3. The degree to which the possible effects on the human environment are**  
17 **highly uncertain or involve unique or unknown risks.**

18 An agency “must generally prepare an EIS if the environmental effects of a proposed agency  
19 action are highly uncertain.” *Nat’l Parks & Conservation Ass’n v. Babbitt*, 241 F.3d 722, 731-32  
20 (9th Cir. 2001). The mere existence of uncertainty, however, does not mandate an EIS. *Id.* at 732  
21 n.9. An EIS “is mandated where uncertainty may be resolved by further collection of data,” or  
22 “where the collection of such data may prevent ‘speculation on potential . . . effects. The purpose of  
23 an EIS is to obviate the need for speculation by insuring that available data are gathered and  
24 analyzed prior to the implementation of the proposed action.’ ” *Id.* at 732.

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25  
26 <sup>24</sup> Plaintiffs cite to paragraphs 4 through 21 of the Declaration of Edward Hammond, Docket  
27 No. 13, Ex. “1”; paragraphs 36 through 40 of the Kelley Declaration; and, paragraphs 7 through 24  
28 of the Wheelis Declaration. Mot. at 20:18. Plaintiffs fail to indicate, however, which paragraphs  
address need, accidents, terrorism, or the BWC. On review, the Court finds few paragraphs actually  
address terrorist attacks. With regards to these, the Court notes that merely claiming a controversy  
exists does not suffice as evidence of a controversy. *See, e.g.*, Kelley Decl. ¶ 36.



1 Plaintiffs assert that the facility’s effects on the environment are uncertain as there “is no  
2 precedent for a release of pathogenic material from such a facility in the United States.” Mot.  
3 at 21:4-6. Plaintiffs also assert that this safety record is no justification for failing to consider a  
4 release, especially considering the 100 dead from the Sverdlovsk release, and that the BSL-3 will  
5 work with agents which could be used as bioweapons and will work with genetically modified  
6 agents which pose unknown risks. *Id.* at 21:11-17. Defendants assert that the safety record of  
7 American BSL-3 facilities belies plaintiffs’ claims of uncertainty as to what impact they have on  
8 their surroundings. Opp’n at 16-25. Plaintiffs reply that only a “thorough” analysis of the  
9 consequence of a theft and release by a terrorist, or of a release which impacts the entire Bay Area,  
10 would resolve the uncertainty here. Reply at 13:22-14:2.

11 The Court finds that plaintiffs have failed to indicate how the facility’s operations are  
12 “highly uncertain,” as required by *National Parks*. The safety record of such facilities,<sup>25</sup> the FREA,  
13 the Release Scenario, and the dispersion model suggest the potential impact of the facility’s  
14 operation to a reasonable certainty. As such, plaintiffs have failed to demonstrate that more data is  
15 required to prevent “speculation.” Moreover, they have failed to show that they are likely to prevail  
16 on this issue or to state a serious question of law regarding it. *Topanga Press*, 989 F.2d at 1528.

17 **4. Whether the action threatens a violation of federal, state, or local law or**  
18 **requirements imposed for environmental protection.**

19 Plaintiffs assert that operation of the facility will violate the BWC, more formally known as  
20 the Convention on the Prohibition of the Development, Production and Stockpiling of  
21 Bacteriological (Biological) and Toxin Weapons and on Their Destruction, March 26, 1975, 26  
22 U.S.T. 583. Mot. at 21:20-24. Article I states, in part:

23 Each State Party to this Convention undertakes never in any circumstances to  
24 develop, produce, stockpile or otherwise acquire or retain:

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25  
26 <sup>25</sup> Plaintiffs have presented evidence, discussed in part III.D *infra*, which raises questions as to  
27 whether BSL-3 facilities have under-reported incidents occurring since 2002. Nonetheless, there is  
28 insufficient evidence before the Court for it to find the long-term safety record of these facilities  
suggests the potential environmental impact of the operation of LLNL’s proposed BSL-3 facility is  
“highly uncertain,” so as to require an EIS.

1 (1) Microbial or other biological agents, or toxins whatever their  
2 origin or method of production, of types and in quantities that have no justification  
3 for prophylactic, protective or other peaceful purposes . . . .

4 *Id.*, art. I.

5 Plaintiffs assert that the facility may hold up to fifty liters of pathogenic material, used in  
6 aerosol rodent challenge studies, and its work may involve the genetic manipulation of agents and  
7 toxins, such that BWC violations could occur. Mot. at 22:1-5. Defendants assert that: (1) the  
8 facility will be operated in compliance with the BWC; (2) the Court and Ninth Circuit have already  
9 barred this issue as irrelevant in the prior litigation; and (3) as these courts previously held, this is a  
10 policy argument, beyond the bounds of NEPA, *Metro. Edison Co. v. People against Nuclear Energy*,  
11 460 U.S. 766, 777 (1983) (NEPA is not a policy grievance process). Opp’n at 18:2-13.

12 Whether or not the Court barred this particular issue as irrelevant in the prior litigation, it is  
13 clear that this issue is irrelevant in this litigation, which concerns whether the DOE adequately  
14 assessed the potential environmental impact of a terrorist attack. Further, BWC compliance is an  
15 inappropriate issue for a NEPA challenge, under *Metropolitan Edison*. Moreover, plaintiffs fail to  
16 indicate how a treaty like the BWC falls under § 1508.27(b)(10), which only addresses “federal,  
17 state, or local law or requirements imposed for the protection of the environment[.]” The Court  
18 finds that plaintiffs have failed to show they are likely to prevail on this issue, or to state a serious  
19 question of law regarding it. *Topanga Press*, 989 F.2d at 1528.

20 **C. Summary**

21 As plaintiffs fail to demonstrate that they would likely prevail on either the context or  
22 intensity components of the “significance” concept under 42 U.S.C. § 4332(2)(C), they fail to  
23 demonstrate that they would likely prevail on their second count alleging that the BSL-3 facility  
24 requires an EIS, on the ground that it is a “major Federal action[] significantly affecting the quality  
25 of the human environment . . . .”

26 **III. Failure to Supplement and Circulate a Revised Environmental Assessment**

27 Plaintiffs assert that they will likely prevail on the merits of their third count, that the DOE  
28 failed to supplement the REA as required by law. More specifically, they assert that the DOE

1 intentionally withheld information from the draft REA regarding matters which affect the quality of  
2 the human environment in a significant manner. They assert that the public was thus denied a  
3 reasonable opportunity to have meaningful input in the decision-making process, prior to the DOE  
4 issuing the FREA. As discussed below, the Court finds that plaintiffs would likely prevail on the  
5 issue as to whether the DOE should have supplemented and circulated its REA with details of two  
6 2005 shipping incidents.

7 As the Supreme Court has held, “an agency need not supplement an EIS every time new  
8 information comes to light after the EIS is finalized. To require otherwise would render agency  
9 decisionmaking intractable, always awaiting updated information only to find the new information  
10 outdated by the time a decision is made.” *Marsh*, 490 U.S. at 373 (footnote omitted). “On the other  
11 hand, . . . NEPA does require that agencies take a ‘hard look’ at the environmental effects of their  
12 planned action, even after a proposal has received initial approval.” *Id.* at 374-75. And, as the Ninth  
13 Circuit has held, “a federal agency has a continuing duty to gather and evaluate new information  
14 relevant to the environmental impact of its actions.” *Warm Springs Dam Task Force v. Gribble*, 621  
15 F.2d 1017, 1023 (9th Cir. 1980) (citing 42 U.S.C. § 4332(2)(A), (B)).

16 The decision whether to supplement is governed by the same standard which applies to  
17 preparing an EIS, that is: (1) whether or not there remains a “major federal action” to occur; and  
18 (2) “if the new information is sufficient to show that the remaining action will ‘affec[t] the quality of  
19 the human environment’ in a significant manner or to a significant extent not already considered . .  
20 . . .” *Marsh*, 490 U.S. at 375 (quoting 42 U.S.C. § 4332(2)(C)). The “significance” of the  
21 information is determined by analyzing “context” and “intensity” under 40 C.F.R. § 1508.27.  
22 *Marsh*, 490 U.S. at 374 n.20; *see also* 10 C.F.R. § 1021.314(a);<sup>26</sup> 40 C.F.R. § 1502.9(c)(1)(ii).<sup>27</sup> The  
23 standard for supplementing an EA is the same as for an EIS. *Idaho Sporting Cong., Inc. v.*

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24  
25 <sup>26</sup> This subdivision states, the “DOE shall prepare a supplemental EIS if there are substantial  
26 changes to the proposal or significant new circumstances or information relevant to environmental  
concerns, as discussed in 40 CFR 1502.9(c)(1).” 10 C.F.R. § 1021.314(a).

27 <sup>27</sup> This subdivision states, “(c) Agencies: [¶] (1) Shall prepare supplements to either draft or  
28 final environmental impact statements if: [¶] . . . [¶] (ii) There are significant new circumstances or  
information relevant to environmental concerns and bearing on the proposed action or its impacts.”  
40 C.F.R. § 1502.9(c)(1)(ii).

1 *Alexander*, 222

2 F.3d 562, 566 n.2 (9th Cir. 2000).

3 “An agency, when preparing an EA, must provide the public with sufficient environmental  
4 information, considered in the totality of circumstances, to permit members of the public to weigh in  
5 with their views and thus inform the agency decision-making process.” *Bering Strait Citizens for  
6 Responsible Res. Dev. v. United States*, 524 F.3d 938, 953 (9th Cir. 2008).<sup>28</sup> As such, “[w]e do not  
7 say that [a draft EA] is always required or that it is never required.” *Id.* at 952.

8 **A. The 2005 Anthrax Shipping Incidents**

9 Plaintiffs would likely prevail on the issue as to whether the DOE should have supplemented  
10 the REA with information regarding two 2005 shipping incidents. In March 2007, the DOE revised  
11 its 2002 EA. *See* REA at cover. On May 11, 2007, the DOE released the REA for public comment,  
12 which considered the environmental impacts potentially associated with terrorist attacks.

13 Regarding a 2005 shipping incident, the DOE states:

14 LLNL has never had a biological-material transportation accident (PC 2002).

15 However, in September 2005, LLNL sent shipments of vials containing select agent  
16 material to two offsite laboratories. Upon receipt, it was determined that the inner  
17 packaging of these shipments violated DOT packaging requirements and that the  
18 labels were missing important information. No illnesses or injuries occurred. The  
19 incident was examined and reviewed by the CDC and the DOT. In addition, an  
20 Incident Analysis Committee was empanelled [sic] by the LLNL to review the  
21 incident conduct to determine the root causes. During the review period, all select  
22 agent transfers were suspended at LLNL.

23 At the end of the review, the CDC, DOT, and NNSA determined that  
24 corrective actions were implemented successfully. Subsequently, LLNL’s permit to  
25 work with select agents and toxins was renewed by CDC in 2006 for 3 years and  
26

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27 <sup>28</sup> The parties cite to *Bering Strait Citizens for Responsible Res. Dev. v. United States*, 511 F.3d  
28 1011 (9th Cir. 2008), *Opp’n* at 19:20-22; *Reply* at 14:16-21, but this was amended and superseded  
on denial of rehearing on April 30, 2008, 524 F.3d at 938.

1 transfers were allowed to resume.

2 Accidents due to transportation of microorganisms are not expected to  
3 increase due to the Proposed Action. The addition of milliliter-quantity samples  
4 shipped to and from the BSL-3 facility through federal or by commercial or private  
5 courier would not be expected to change the overall incidence of risk of  
6 transportation accidents. Samples could consist of cells in media contained within  
7 DOT-certified packages. The consequences of such accidents would be anticipated  
8 to be minor, based on the historical data.

9 REA at 57.

10 In the FREA, issued in or after January 2008, *see* FREA at cover, this text was substantially  
11 and significantly more detailed. In pertinent part, it states:

12 [A]n incident occurred in August-September 2005 in connection with a  
13 shipment of a collection of vials containing the select agent *Bacillus anthracis*  
14 (anthrax) to two laboratories, one located in Florida and the other in Virginia. At one  
15 lab, workers unpacking the shipment discovered that some of the vials had leaked  
16 from their primary containers into the inner packaging of the secondary container.  
17 However, the material did not escape from the secondary container into the packing  
18 material within the tertiary shipping container. Although the unpacking process was  
19 conducted in a laboratory, it was not conducted in a Biological Safety Cabinet (BSC),  
20 as required, which resulted in five workers being exposed to liquid from the packages  
21 while unpacking the secondary containers. These employees received medical  
22 treatment as a precaution and there were no adverse health effects. No liquid  
23 penetrated the outer shipping container and there was no public release.

24 FREA at 56.

25 In addition, the FREA notes:

26 At the second lab, discrepancies were noted between the shipping inventory  
27 and the samples in the container. As required by 42 CFR 73, the recipients of the  
28 shipments notified the Centers for Disease Control and Prevention (CDC) of these

1 problems. As a result, the CDC suspended all LLNL transfers of select agents. An  
2 NNSA Occurrence report was filed regarding the incident and LLNL issued a full  
3 stand-down of all select agent work.

4 *Id.*

5 The FREA continues:

6 An analysis of the shipping incident resulted in multiple corrective actions to  
7 strengthen LLNL's packaging and transportation program for select agents and other  
8 bio-hazardous materials at LLNL. Actions taken to prevent recurrence included an  
9 expansion of the Select Agent Security Plan, additional training related to packaging  
10 and shipping regulations, clarifying roles and responsibilities, a new bio-governance  
11 model, and an improved inventory system.

12 *Id.*

13 According to minutes from LLNL's Institutional Biosafety Committee, back in November  
14 2005, the CDC identified 29 transportation-related issues for resolution and gave LLNL 30 days to  
15 address them. Docket No. 13, Ex. "12." The CDC and the Department of Transportation (DOT),  
16 however, did not allow the LLNL to resume select agent transfers until February 2006. FREA at 57.  
17 In January 2007, the Office of the Inspector General ("OIG") of the Department of Health and  
18 Human Services ("HHS") alleged that in 2005, LLNL had violated shipping and packaging laws. *Id.*  
19 at 57. Further, the OIG alleged that LLNL violated security and access requirements by allowing an  
20 unauthorized person to package anthrax, and that LLNL's Responsible Official failed to ensure  
21 compliance with select agent shipping and packaging laws. *Id.* Allegedly, the person's  
22 authorization had lapsed, and had not been renewed. *Id.* The Regents of the University of  
23 California paid \$450,000 to resolve these allegations. *Id.*

24 In regards to the first incident, according to a 2007 San Francisco Chronicle article, the  
25 unauthorized person, who subsequently resigned, failed to place twist-off caps on 2 vials, out of a  
26 shipment of 1,025 vials, and failed to tighten a cap on a third vial. Docket No. 13, Ex. "10" at 1.  
27 The exposed workers received Cipro. *Id.* In the second incident, which occurred the following day,  
28 a shipment of about 3,000 vials had more vials than it should have. *Id.* Apparently, lab officials

1 failed to inspect the shipments or verify their inventories. *Id.*

2 Plaintiffs note that these incidents occurred while the prior litigation was on appeal to the  
3 Ninth Circuit, which addressed, *inter alia*, whether the DOE had adequately evaluated the potential  
4 environmental impact from a transit-related release. Mot. at 24:5-10. They note that defendants  
5 never advised either this Court or the Ninth Circuit of these developments. *Id.* Moreover, despite  
6 the fact that the incidents occurred in 2005, the DOE failed in its 2007 REA to mention anthrax was  
7 involved, that an unauthorized person had failed to cap vials, that any liquid had escaped, that  
8 workers were treated, that LLNL's shipping procedures were lacking and had been suspended, or  
9 that the OIG had levied a fine of \$450,000. *Id.* at 24:10-18. Plaintiffs characterize these omissions  
10 as misleading and an attempt by the DOE to downplay the incidents. *Id.* Plaintiffs assert that these  
11 omissions directly contradict the DOE's assertions in the EA regarding its safety training and  
12 protocols, and that only CDC-registered persons had access to select agents. *Id.* at 25:12-23. They  
13 also claim that these incidents implicate not only the topics assessed by the DOE in its initial EA but  
14 also its terrorism assessment. *Id.* Lastly, they assert that the DOE's lack of candor and failure to  
15 supplement, until it issued the FREA, directly circumvented judicial review and public comment  
16 under the NEPA. *Id.* at 25:24-25:4.

17 Defendants make three arguments in opposition. First, they assert that, after the public  
18 comment period closed for the REA, the DOE allegedly received complaints from plaintiffs  
19 regarding the lack of detail regarding the 2005 incidents, and thus, added more detail to the FREA.  
20 Opp'n at 19:14-17. Second, they assert that they were not required to circulate or re-circulate any  
21 draft EAs under *Bering Strait*. *Id.* at 19:20-20:1. Third, they assert that the supplemental  
22 information in the FREA did not affect the environment in a significant manner or to a significant  
23 extent not already considered. *Id.* at 20:10-12.

24 Having considered the parties' arguments, the Court finds that plaintiffs have shown they  
25 would likely prevail on the merits of this issue. In this regard, the Court first notes that the issue as  
26 to whether or not the DOE should have supplemented the 2007 REA, with information about 2005  
27 shipping incidents, would not be an issue at all and certainly not before this Court, had the DOE  
28 simply *placed this information in the 2007 REA*. Instead, it waited until 2008 to "supplement" the

1 FREA with a more detailed account. It is unclear why the DOE failed to include in the 2007 REA,  
2 in a section *specifically addressing* the potential environmental impacts of *transit-related incidents*,  
3 information *more than a year old*, about two 2005 shipping incidents.

4 The DOE's arguments are unpersuasive on this issue. That it "supplemented" the 2008  
5 FREA in response to alleged complaints about the 2007 REA, does not excuse or explain its initial  
6 failure to place this information in the 2007 REA. Its contention that the information was not  
7 "significant" under the NEPA<sup>29</sup> is belied by the very fact the DOE felt compelled to withhold this  
8 information until *after* the close of the public comment period and until *after* the termination of the  
9 prior litigation. As the Supreme Court has stated, "NEPA has twin aims. First, it places upon an  
10 agency the obligation to consider every significant aspect of the environmental impact of a proposed  
11 action. Second, it ensures that the agency will inform the public that it has indeed considered  
12 environmental concerns in its decisionmaking process." *Balt. Gas & Elec. Co.*, 462 U.S. at 97  
13 (internal citations and quotation marks omitted). Here, the DOE did neither, and plaintiffs have  
14 reasonably concluded the DOE may have attempted to avoid public comment on these incidents.

15 As a result, the DOE did not "provide the public with sufficient environmental information,  
16 considered in the totality of circumstances, to permit members of the public to weigh in with their  
17 views and thus inform the agency decision-making process." *Bering Strait*, 524 F.3d at 953. Thus,  
18 the Court finds the DOE's decision to omit this information from the 2007 REA and insulate it from  
19 public scrutiny was arbitrary and capricious. *Marsh*, 490 U.S. at 378. Plaintiffs have thus shown  
20 they would likely prevail on the merits of this issue at trial. *Topanga Press*, 989 F.2d at 1528.

#### 21 **B. October 2007 Newspaper Article**

22 Plaintiffs also assert that the DOE should have supplemented with an October 2, 2007  
23 Associated Press ("AP") article which reports that American laboratories "handling the world's  
24 deadliest germs and toxins have experienced more than 100 accidents and missing shipments since  
25

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26 <sup>29</sup> In this regard, the DOE appears to focus too much on the outcomes of the incidents, i.e., that  
27 nobody took ill or died, rather than on the public's right and need to know in order to make informed  
28 decisions and to have meaningful input into government affairs. Further, this information is clearly  
significant, as it speaks to the "intensity" or severity of the BSL-3 facility's impact. See 40 C.F.R.  
§ 1508.27(b); *Ocean Advocates*, 402 F.3d at 865.



1 2003, and the number is increasing steadily as more labs across the country are approved to do the  
2 work.” Mot. at 26:6-10. These accidents include animal bites or scratches, skin cuts, needle sticks,  
3 unaccounted for animals,<sup>30</sup> broken vials, contaminated waste leaks, dropped containers, defective  
4 seals, missing or lost shipment, *et seq.* *Id.* at 26:11-13. The article states, “Thirty six (36) accidents  
5 and lost shipments were reported between January and August 2007, which is nearly double the  
6 number reported during all of 2004.” *Id.* at 26:13-16. Plaintiffs assert that this information  
7 contradicts the DOE’s assertions in its REA that laboratory accidents at the BSL-3 are “improbable.”  
8 *Id.* at 26:17-19. They also assert that the “significant number of transportation-related incidents”  
9 reported, questions whether defendants may assert that such incidents “are not expected to increase”  
10 when the BSL-3 becomes operational. *Id.* at 26:19-22.

11 In turn, defendants assert that in preparing the REA, the DOE determined that “the risk of  
12 laboratory infection in the facility was no different than at other BSL-3 facilities and was not  
13 significant based on the nearly 30-year history of safe operations of BSL-3 labs in the country.”  
14 *Opp’n* at 21:2-5. The DOE further states, “Nothing in the October 2007 article makes the DOE’s  
15 conclusion—which is based on decades of experience—arbitrary or capricious. Nor does the article  
16 demonstrate a ‘seriously different picture of the likely environmental harms stemming from the  
17 proposed action.’ ” *Id.* at 21:5-8 (quoting *Wisconsin v. Weinberger*, 745 F.2d 412, 420 (7th Cir.  
18 1984)).

19 The Court agrees with defendants. The article states that while the number of labs “approved  
20 by the government to handle the deadliest substances” has nearly doubled from 2004 through 2007,  
21 the number of accidents and lost shipments has risen steadily, such that the number reported in 2007  
22 (through August) was almost double the number reported in 2004. Docket No. 13, Ex. “15” at 1  
23 paras. 1, 4, 6. Thus, the article suggests that there has been a roughly one-to-one correlation  
24 between the rise in the number of laboratories and incidents since 2004. The article, however, fails  
25 to indicate whether the incident rate, that is the number per laboratory, is relatively high or low.

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27 <sup>30</sup> Apparently due to cannibalism by other animals or due to an inability to identify individual  
28 small rodent bodies when numbers of them are simultaneously subject along with their loose  
bedding to high-temperature sterilization. Docket No. 13, Ex. “15” at 2, para. 5, at 3 paras. 5-7.

1 Further, it is not even clear if the article is referring only to laboratories registered to handle select  
2 agents. Thus, the article does not contradict the DOE’s conclusion in its REA that laboratory  
3 accidents at the BSL-3 are “improbable.” Further, because the article does not state how many  
4 accidents were transportation-related, plaintiffs’ characterization of this unknown figure as  
5 “significant,” is unpersuasive and fails to rebut the DOE’s conclusion in its REA that the rate of  
6 such accidents is not expected to increase.<sup>31</sup> In short, on the issue of the rising numbers of  
7 laboratory accidents since 2002, the article provides no “significant new . . . information relevant to  
8 environmental concerns[,]” *see* 10 C.F.R. § 1021.314(a), not already covered by the DOE in the EA,  
9 REA, or FREA. Thus, the Court does not find the DOE’s failure to supplement the REA on this  
10 issue was arbitrary and capricious. *Marsh*, 490 U.S. at 378. As such, plaintiffs have not shown they  
11 would likely prevail on the merits of this issue, nor have they presented a serious question of law in  
12 regards to it. *Topanga Press*, 989 F.2d at 1528.

13 **C. October 4, 2007 Government Accounting Office Study**

14 Plaintiffs assert that the DOE should have supplemented with information from October 4,  
15 2007 Government Accounting Office Testimony titled *High-Containment Biosafety Laboratories*.  
16 Mot. at 27:5-28:3. The testimony was provided in October 4, 2007 hearings before the House  
17 Committee on Energy and Commerce’s Subcommittee on Oversight and Investigations, discussed in  
18 part III.D, *infra*. The testimony observes that the number of BSL-3 and BSL-4 laboratories is  
19 “proliferating” post-2001. Docket No. 13, Ex. “17” at 1 para 1. Plaintiffs assert that the DOE failed  
20 to analyze how this proliferation might obviate the need for the BSL-3 or affect the terrorism  
21 analysis ordered by the Ninth Circuit. Mot. at 27:23-26.

22 Defendants assert that the testimony is not new information and was considered in the EA,  
23 the REA, and the FREA, while the GAO document itself was cited in the FREA. Opp’n at 21:11-13.  
24 As such, defendants assert that plaintiffs essentially disagree with the weight defendants accorded  
25

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26 <sup>31</sup> In their Motion, plaintiffs allege biological shipments “may” be ten times the level they were  
27 prior to when the BSL-3 became operational, citing page 21 of the FREA as their source. Mot.  
28 at 26:23-26. The Court notes, however, page 21 of the FREA discusses shipping procedures, but  
provides no information regarding the number of shipments to or from the LLNL or the BSL-3 at  
any time.

1 this information. *Id.* at 21:13-15. In this regard, defendants note they not only took a hard look at  
2 the need for a BSL-3 facility in *any* location, more importantly, they considered the need for an *on-*  
3 *site* BSL-3 facility, to avoid the inherently increased security risks and quality control problems  
4 associated with using an off-site facility. *Id.* at 21:17-22:5.

5 Defendants' argument that they cited the GAO document in the *FREA*, does not address  
6 plaintiffs' concerns regarding *circulating a supplemented REA* for public comment. Nonetheless,  
7 the Court agrees that the information contained in the GAO testimony is not significant new  
8 information relative to the REA, on the issue of whether or not LLNL "needed" a BSL-3. Although  
9 the GAO presented the information in October 2007, after the March 2007 REA was circulated, the  
10 information itself addresses an increase in the number of BSL-3 and BSL-4 laboratories in the  
11 United States since *before 2001*. See Docket No. 13, Ex. "17" at 1, para. 1.

12 Further, as defendants indicate, the increasing demand for biodefense research and laboratory  
13 facilities in the early 21st century was analyzed and presented to the public in the EA, REA, and  
14 *FREA*. See, e.g., *FREA* at 4, 6-8. In this regard, while plaintiffs appear to allege the social and  
15 political forces driving an increase in the number of BSL-3 and BSL-4 laboratories in the United  
16 States should *lessen* the need for one at LLNL, they fail to refute defendants' position that these  
17 forces in fact have *created* the need for one at LLNL. Thus, because plaintiffs have failed to show  
18 the GAO "proliferation" information was "significant" new information under the NEPA, *Marsh*,  
19 490 U.S. at 375, regarding the issue of LLNL's need for a BSL-3, the Court finds that the DOE's  
20 failure to supplement the REA with this information was not arbitrary or capricious, *id.* at 378. As  
21 such, plaintiffs have not shown they would likely prevail on the merits of this issue, nor have they  
22 presented a serious question of law in regards to it. *Topanga Press*, 989 F.2d at 1528.

#### 23 **D. October 4, 2007 Congressional Hearings**

24 As already noted, On October 4, 2007, the House Committee on Energy and Commerce's  
25 Subcommittee on Oversight and Investigations held a hearing titled *Germs, Viruses, and Secrets:*  
26 *The Silent Proliferation of Bio-Laboratories in the United States*. Mot. at 28:6-8. Plaintiffs assert  
27 that statements made during these hearings indicate an accidental release could be "catastrophic," no  
28 one federal agency tracks the number of BLS-3 and BSL-4 laboratories, the increased number of

1 these facilities is questionable, and poor safety training and reporting practices pose a potential  
2 security and health threat. *Id.* at 27:8-11, 28:6-14. As such, plaintiffs assert that these hearings  
3 raised substantial questions regarding the need for LLNL’s facility and its safety and security,  
4 requiring supplementation of the REA. *Id.* at 28:15-18. Defendants assert that none of this  
5 information demonstrates any of the FREA’s conclusions were arbitrary or capricious nor  
6 demonstrates a ‘seriously different picture of the likely environmental harms stemming from the  
7 proposed action.’ ” Opp’n at 22:7-12 (quoting *Weinberger*, 745 F.2d at 420).

8 In reply, plaintiffs note that the GAO testified there was no central government authority  
9 overseeing all BSL-3 or BSL-4 laboratories, and that the oversight provided was inadequate given  
10 the number of existing laboratories. Reply at 16:8-9. Further, they note that the CDC official in  
11 charge of overseeing these facilities testified that the CDC’s oversight could be improved and it was  
12 “critically important” for the government to form a task force to oversee them. *Id.* at 16:9-14  
13 (quoting LAT para. 8). They also note that defendants “repeatedly attempt to bolster their assertion  
14 that the proposed facility will not have a significant impact on the human environment based on the  
15 ‘stringent set of guidelines and regulations’ under which BSL-3 facilities must operate[.]” *Id.*  
16 at 16:14-17 (quoting Opp’n at 3:26). They thus state that “the fact that a federal official charged  
17 with ensuring such oversight admits to its inadequacies provides ‘a *seriously* different picture of the  
18 environmental landscape such that another hard look is necessary.’ ” Reply at 16:17-20 (quoting  
19 *Weinberger*, 745 F.2d at 418 (emphasis in original)).

20 The evidence before the Court shows a rapid expansion in the numbers of BSL-3 and BSL-4  
21 facilities in recent years, but no corresponding expansion or centralization of oversight. On the one  
22 hand, this information is within the purview of the goal of the NEPA’s informed public comment-  
23 making process to enable the DOE to appropriately respond or modify proposed actions. *Bering*  
24 *Strait*, 524 F.3d at 953. On the other hand, however, it is unclear how or to what extent a lack of  
25 centralized oversight directly affects the CDC and NIH oversight of LLNL’s BSL-3 facility. Nor is  
26 it clear how or to what extent this issue affects the DOE’s historic analysis of the health impacts  
27 from operating hundreds of CDC-registered BSL-3 laboratories. *See* FREA at 40-42. Thus, the  
28 Court does not find the DOE’s failure to supplement the REA on this issue was arbitrary and

1 capricious. *Marsh*, 490 U.S. at 378. As such, plaintiffs have not shown they would likely prevail on  
2 the merits of this issue, nor have they presented a serious question of law in regards to it. *Topanga*  
3 *Press*, 989 F.2d at 1528.

4 **E. December 2005 University of Maryland Report**

5 According to plaintiffs, in December 2005, Milton Leitenberg, Senior Research Scholar at  
6 the Center for International and Security Studies at the University of Maryland, released a report  
7 entitled *Assessing the Biological Weapons and Bioterrorism Threat*, prepared for the Strategic  
8 Studies Institute, a division of the U.S. Army War College. Mot. at 28:20-23. In his report,  
9 Leitenberg says, “the U.S. biodefense research program appears to be drifting into violation of  
10 Article 1 of the [BWC].” *Id.* at 28:23-25. Plaintiffs assert that Leitenberg attributes this condition to  
11 a lack of national-level oversight to ensure such compliance. *Id.* at 28:26-27. Plaintiffs assert that  
12 this raises questions as to LLNL’s *capability* to comply with the BWC, especially “because  
13 determining compliance with the BWC is notoriously difficult . . . .” *Id.* at 28:27-29:3.

14 Defendants’ assert that the 2005 report does not present “new” information, and thus  
15 plaintiffs had the burden to produce it during the 2007 comment period, if they felt it relevant.  
16 Opp’n at 22:17-23:1. They also assert that even if it were new information, it would not be  
17 “significant” under the NEPA, because under *Metropolitan Edison*, it is a policy matter beyond the  
18 NEPA’s scope. *Id.* at 23:2-5.

19 When the DOE set out to issue the REA in 2007, it had a duty to supplement its 2002 EA,  
20 under *Marsh*, as a “major federal action” was still pending. Further, this duty did not vary  
21 depending on when new information arose during the interim. That said, the BWC issue is a policy  
22 matter beyond the scope of this NEPA proceeding. Further, plaintiffs may not assert that LLNL’s  
23 capability to comply with it is questionable merely because its compliance may be difficult to  
24 monitor. The DOE is entitled to the presumption it “will act properly and according to law.” *FCC*  
25 *v. Schreiber*, 381 U.S. 279, 296 (1965). Thus, the Court finds plaintiffs have not shown they would  
26 likely prevail on the merits of this issue, nor have they presented a serious question of law in regards  
27 to it. *Topanga Press*, 989 F.2d at 1528.

28 **IV. Failure to Publicly Circulate the Findings of No Significant Impact**

1 Plaintiffs' final count alleges the DOE failed to circulate its FONSI for public comment.  
2 Mot. at 29:18:-30:3. The "DOE shall issue a proposed FONSI for public review and comment  
3 before making a final determination on the FONSI if required by 40 C.F.R. § 1501.4(e)(2)."  
4 10 C.F.R. § 1021.322. Under 40 C.F.R. § 1501.4(e)(2), "[i]n certain limited circumstances . . . the  
5 agency shall make the [FONSI] available for public review . . . for 30 days before the agency makes  
6 its final determination whether to prepare an [EIS] and before the action may begin." There are two  
7 "limited circumstances." First, "[t]he proposed action is, or is closely similar to, one which  
8 normally requires the preparation of an environmental impact statement under the procedures  
9 adopted by the agency pursuant to § 1507.3[.]" *Id.* § 1501.4(e)(2)(i). Or, "[t]he nature of the  
10 proposed action is one without precedent." *Id.* § 1501.4(e)(2)(ii). As the first circumstance is  
11 inapplicable, the parties focus on whether or not the BSL-3 facility is "without precedent."

12 In this regard, plaintiffs assert that the DOE's action is "without precedent" because the DOE  
13 has not previously operated a BSL-3 laboratory. For support, plaintiffs direct the Court to *Sabine*  
14 *River Authority v. U.S. Dep't of Interior*, 745 F.Supp. 388 (E.D. Tex. 1990). In *Sabine*, the  
15 Department of the Interior (the "DOI") proposed to accept a conservation easement on 3,800 acres  
16 of land, but the Sabine River Authority (the "SAR") wanted to build a reservoir which would flood  
17 the easement. *Id.* at 392. Under the NEPA, the DOI drafted a EA and held a public hearing. *Id.* It  
18 then issued a final EA recommending acceptance, issued a FONSI indicating there was no need for  
19 an EIS, and accepted the easement. *Id.*

20 The SAR, *inter alia*, asserted that the DOI should have provided a 30-day comment period  
21 after the FONSI issued. *Id.* at 401. The SAR asserted that the DOI's proposed action was "without  
22 precedent" because no other conservation easements had been acquired in the proposed reservoir  
23 area. *Id.* at 402. The court disagreed, finding under 40 C.F.R. § 1501.4(e)(2)(ii), because the DOI  
24 had accepted easements before, under circumstances posing a conflict with other users, its proposed  
25 action was not "without precedent." *Id.*

26 At first blush, *Sabine* appears to support plaintiffs' position, because, the DOE has not  
27 previously operated a BSL-3 facility. The First Circuit, however, has expressly interpreted the terms  
28 "without precedent," under § 1501.4(e)(2)(ii), as focusing on whether the *environmental impact of*

1 the action is without precedent, not whether the actor has *performed* the proposed action before.  
2 Thus, in *Alliance to Protect Nantucket Sound, Inc. v. U.S. Dep't of Army*, 398 F.3d 105 (1st Cir.  
3 2005), the Alliance asserted that the Army was required to circulate a FONSI, under  
4 § 1501.4(e)(2)(ii), where a private entity sought a navigability permit from the Army, so it could  
5 place an offshore data tower in Nantucket Sound in the Outer Continental Shelf (“OCS”). *Id.* at 107,  
6 114-15. The Alliance asserted that the tower was without precedent, as there had never been such a  
7 structure in the OCS. *Id.* at 115. The Army noted there was a data tower in state waters off  
8 Martha’s Vineyard, and the proposed data tower was similar to other pile supported structures in  
9 Nantucket Sound. *Id.* The court found that the Army’s determination that the data tower was not  
10 “without precedent” was reasonable. *Id.* As the court held:

11       The CEQ regulations . . . are designed to address *environmental impact*. Based on  
12       the Corps’s findings about the existence of similar pile-driven structures in Martha’s  
13       Vineyard and near the shore of Nantucket Sound, we can see nothing unprecedented  
14       about the way this data tower will *impact the environment*.

15 *Id.* (emphasis added).

16       This Court is persuaded that the First Circuit’s interpretation comports with the NEPA.  
17 Plaintiffs’ interpretation would treat every proposed action as without precedent, if proposed by an  
18 actor who had not previously proposed such an action, even if the proposed action had been  
19 performed by hundreds of other actors. NEPA, however, does not focus on *who* proposes an action,  
20 but on the *environmental impact* of a proposed action. Nor is the First Circuit’s interpretation  
21 inconsistent with the Eastern District of Texas’ in *Sabine*. The *Sabine* court found that there were  
22 precedents for the practice of accepting easements, because the DOI had accepted them before,  
23 under like circumstances. This suggests that the environmental impacts of the practice were well  
24 established. In turn, this suggests the *Sabine* court was focused not on whether the DOE had  
25 performed the proposed action, but was focused on whether the proposed action had been performed  
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1 previously. Thus, the *Alliance* and *Sabine* holdings are consistent.<sup>32</sup>

2 Based on the foregoing, the Court finds there are in excess of 1,350 BSL-3 laboratories  
3 already in operation, LLNL's proposed BSL-3 facility is not "without precedent" under  
4 § 1501.4(e)(2)(ii), and the DOE was not required to circulate its FONSI for public comment. As  
5 such, plaintiffs have not shown they would likely prevail on the merits of this issue, nor have they  
6 presented a serious question of law in regards to it. *Topanga Press*, 989 F.2d at 1528.

#### 7 **V. Irreparable Injury**

8 Plaintiffs assert the possibility of three irreparable injuries. First, they assert that because the  
9 BSL-3 facility will handle "deadly bioagents," "genetically modified organisms[,] and bioagents  
10 "which could have offensive uses as bioweapons[,] any release due to a terrorist attack, earthquake,  
11 operator error, *et seq.* "would pose a grave danger of irreparable health impacts to an untold number  
12 of individuals." Mot. at 31:21-32:3; *see* Reply at 17:18-18:2. Second, they assert that they have  
13 suffered a "procedural injury," because defendants failed to supplement the REA with information  
14 regarding the two 2005 shipping incidents and other developments, such as the October 2007  
15 congressional hearings, and circulate it for public comment, which allowed defendants to act without  
16 the benefit of public comment. Mot. at 32:4-14. Third, they assert that they have suffered a  
17 "procedural injury," because defendants failed to prepare an EIS. *Id.* at 32:14-16.

18 Defendants counter that plaintiffs fail to show how the risks of operating the BSL-3 facility  
19 at LLNL are different than any of the other 1,350-plus facilities currently operating around the  
20 country. Opp'n at 24:3-6. They also assert that as required by law they took a hard look at the  
21 potential environmental impact of an intentional destructive act on the BSL-3 facility and properly  
22 determined that it would not have a significant impact on the environment. *Id.* at 7-10. They also  
23 note that plaintiffs' hypotheses involving a release that poses "a grave danger of irreparable health  
24 impacts to an untold number of individuals," involve chains of events and multiple contingencies far

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26 <sup>32</sup> Likewise, in *Advocates for Transportation Alternatives, Inc. v. U.S. Army Corps of*  
27 *Engineers*, 453 F.Supp.2d 289 (D. Mass. 2006), the court held that a proposal to restore commuter  
28 right-of-ways, *id.* at 294-95, the court merely pointed to the act and not the actor, in holding that the  
Army did not have to publicly circulate its FONSI, *id.* at 311.



1 too speculative and unlikely to occur to support injunctive relief. *Id.* at 24:20 (citing *Caribbean*  
2 *Marine Servs. Co. v. Baldrige*, 844 F.2d 668, 675 (9th Cir. 1988)).

3 The Court finds that plaintiffs have failed to show the possibility of an irreparable injury.  
4 With regards to plaintiffs' first argument, the Court notes that they have presented no evidence that  
5 the facility would work with bioagents usable as bioweapons. Likewise, plaintiff's concerns  
6 regarding incidents other than terrorist attacks, such as earthquakes or operator error, have already  
7 been rejected by this Court and the Ninth Circuit.

8 Focusing on the remainder of plaintiffs' first argument, plaintiffs attempt to demonstrate the  
9 possibility of an irreparable injury by using the same arguments they previously raised to show that  
10 defendants in the FREA performed an inadequate analysis of the potential environmental impact of  
11 intentional destructive acts. The Court agrees with defendants, however, that it has found that  
12 defendants took a hard look at this issue and that plaintiffs have failed to state any serious questions  
13 of law in its regard. While environmental harm is generally irreparable, plaintiffs cannot  
14 demonstrate irreparable harm from the facility's operation merely by invoking this principle. *The*  
15 *Lands Council v. McNair*, 537 F.3d 981, 1004 (9th Cir. 2008). Nor can they meet their burden if the  
16 evidence shows an irreparable injury is unlikely or its risk of occurrence is negligible. *R.C.A.L.F. v.*  
17 *U.S.D.A.*, 415 F.3d 1078, 1104 (9th Cir. 2005). Attenuated, conjectural, or speculative injuries will  
18 not suffice. *Caribbean Marine Servs.*, 844 F.2d at 675. Plaintiffs attempt to meet their burden,  
19 however, by asserting that they face the possibility of irreparable injury either from: (1) a release  
20 whose effect terminates at *125 feet from the facility*, as predicted by the FREA; or (2) the *mere*  
21 *possibility* of a larger release. The first release is too attenuated and the second too speculative to  
22 constitute irreparable harm to plaintiffs. Thus, their first argument fails to show the possibility of an  
23 irreparable injury from the BSL-3 facility's operation.

24 Turning to plaintiffs' second argument, the Court notes that "[a]n agency, when preparing an  
25 EA, must provide the public with sufficient environmental information, considered in the totality of  
26 circumstances, to permit members of the public to weigh in with their views and thus inform the  
27 agency decision-making process." *Bering Strait Citizens for Responsible Res. Dev.*, 524 F.3d at  
28 953. When government decision-makers fail to do this, there is an added risk to the environment

1 that they will act without the benefit of public comment regarding the likely effect of their decision  
2 upon the environment. *Sierra Club v. Marsh*, 872 F.2d 497, 500 (1st Cir. 1989). Plaintiffs claim  
3 that they were harmed by defendants' failure to supplement the REA with certain information,  
4 including details regarding the 2005 shipping incidents. The Court notes that besides this lost  
5 opportunity, there is no evidence that this deprivation substantively harmed plaintiffs. That is, they  
6 have not indicated what comments they would have provided to defendants, had this information  
7 been provided, or how their comments might have altered defendants' conclusions in the FREA.  
8 Nor have they shown that by taking corrective action in 2006, defendants have not already  
9 considered this issue. *See Warm Springs Dam Task Force*, 621 F.2d at 1023 (comments may be  
10 futile where agency has considered issue in the absence of comments). Thus, plaintiffs' second  
11 argument fails to show the possibility of an irreparable injury to them from the BSL-3 facility's  
12 operation.

13 Finally, with regards to plaintiffs' third argument, that they suffered a "procedural injury,"  
14 by virtue of defendants' failure to prepare an EIS, given the Court's finding that plaintiffs have not  
15 shown a serious question of law as to whether defendants should have prepared one, plaintiffs  
16 could not have been irreparably injured by defendants' failure.

17 **VI. Plaintiffs have failed to make the required showing for a preliminary injunction.**

18 A party seeking a preliminary injunction must show either: (1) a combination of probable  
19 success on the merits and the possibility of irreparable injury, or (2) that serious questions are raised  
20 and the balance of hardships tips sharply in its favor. *Faith Ctr. Church Evangelistic Ministries v.*  
21 *Glover*, 462 F.3d 1194, 1201-02 (9th Cir. 2006). With regards to their first, second, and fourth  
22 counts, plaintiffs have failed to raise any serious questions, much less demonstrate probable success  
23 on the merits. With regards to their third count, they have demonstrated a probable success on the  
24 merits as to whether defendants should have supplemented the REA with details regarding the 2005  
25 shipping incidents and circulated this information for public comment. They have not, however,  
26 shown irreparable injury.


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**CONCLUSION**

Accordingly, the Court DENIES the Amended Plaintiffs' Notice of Motion and Motion for Preliminary Injunction [Docket No. 13].

IT IS SO ORDERED.

February 9, 2009

  
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Saundra Brown Armstrong  
United States District Judge