4	STEPHAN C. VOLKER (CSB #63093) $10.522.02$ JAMEY M.B. VOLKER (CSB #273544) $M.$ BENJAMIN EICHENBERG (CSB# 270893)         LAW OFFICES OF STEPHAN C. VOLKER $436 14^{th}$ Street, Suite 1300         Oakland, California 94612       Tel: 510/496-0600         Fax: 510/496-1366 $5000$				
	Attorneys for Plaintiffs THE PROTECT OUR COMMUNITIES FOUNI BACKCOUNTRY AGAINST DUMPS, and DO	DATION, NNA TISDALE			
8	IN THE UNITED STATES DISTRICT COURT				
9	FOR THE SOUTHERN DISTRICT OF CALIFORNIA				
10	THE PROTECT OUR COMMUNITIES	Civ. No. TO BE ASSIGNED			
11	FOUNDATION, BACKCOUNTRY AGAINST DUMPS, and DONNA				
12	TISDALE,	COMPLAINT FOR			
13	Plaintiffs,	DECLARATORY AND INJUNCTIVE RELIEF			
14	VS.				
15	KEN SALAZAR, in his official capacity as Secretary of the Interior; MIKE POOL, in his official capacity as Acting Director of the				
16	[United States Bureau of Land Management: )]				
17	TOM ZALE, in his official capacity as Acting Manager of the El Centro Field Office ) for the United States Bureau of Land				
18	OF LAND MANAGEMENT, a federal				
19 20	agency; and UNITED STATES () DEPARTMENT OF THE INTERIOR, a ()				
20	federal agency,				
21 22	Defendants.				
22					
	INTRODUCTION				
24 25	1. On December 19, 2011, the United States Department of the Interior ("DOI"				
	and the Bureau of Land Management ("BLM") published their Record of Decision				
26 27	("ROD") approving the issuance of a right-of-way ("ROW") to Tule Wind, LLC ("Tule").				
27	a subsidiary of Iberdrola Renewables, Inc., to construct, operate and maintain the Tule				
28	Wind Project ("Project") on BLM-managed publ	ic land. BLM subsequently issued the			

ROW grant, serial number CACA-049698, to Tule on April 10, 2012. And on September 1 17, 2012, BLM issued to Tule a Notice to Proceed ("NTP") allowing prec-construction 2 geotechnical studies. Most recently, on March 8, 2013, BLM announced an amendment 3 to the ROD and the ROW grant due to San Diego County's approval of a new location for 4 5 the Project's collector substation. The amendment alters the route and design of the generation tie-line connecting the collector substation to the planned rebuilt Boulevard 6 Substation. Among other things, according to BLM's March 8, 2013, press release 7 announcing the amendment, the "amended ROD . . . allows construction of an overhead 8 gen-tie line whereas the previously approved Gen-Tie Route 2 was underground." 9

The Project includes the installation of a wind energy facility with 62 wind 2. 10 turbines and a total generating capacity of up to 186 megawatts ("MW") of electricity. 11 The Project would connect to the Boulevard Substation that is proposed to be rebuilt as a 12 component of San Diego Gas and Electric's ("SDG&E's") East County Substation 13 Project ("ECO Substation"). From there, the electricity produced by the Project would be 14 transmitted to SDG&E's major load centers via the Southwest Powerlink transmission 15 line. The Project was analyzed by BLM and the California Public Utilities Commission 16 ("CPUC") in their joint Final Environmental Impact Report/Final Environmental Impact 17 Statement ("FEIR/FEIS"). 18

3. Plaintiffs THE PROTECT OUR COMMUNITIES FOUNDATION, 19 BACKCOUNTRY AGAINST DUMPS, and DONNA TISDALE (collectively, 20 "plaintiffs") challenge the approval of the Project by defendants KEN SALAZAR, 21 Secretary of Interior, MIKE POOL, Acting Director of BLM, TOM ZALE, Acting 22 Manager of BLM's El Centro Field Office, DOI, and BLM (collectively, "BLM") for 23 violations of the National Environmental Policy Act ("NEPA"), 42 U.S.C. section 4321 et 24 seq., the Migratory Bird Treaty Act ("MBTA"), 16 U.S.C. section 701 et seq., the Bald 25 and Golden Eagle Protection Act ("Eagle Act"), 16 U.S.C. 24 section 668, the 26 Administrative Procedure Act ("APA"), 5 U.S.C. sections 701-706, and regulations 27 28 promulgated thereunder.

4. The Project is an unnecessary industrialization of pristine wilderness areas
 that poses grave threats to birds, bats and other wildlife, and creates needless risks of
 catastrophic wildfires. Far less harmful and more efficient energy development solutions
 exist, such as photovoltaic and other non-fossil fuel distributed (*i.e.* small scale and
 localized) generation projects near energy demand centers in already-disturbed areas.

BLM's Project approvals, including its ROD (as amended), its ROW grant 5. 6 and its NTP, violate NEPA in several significant respects. In its FEIR/FEIS, BLM (1) 7 failed to conduct a robust analysis of distributed generation and other alternatives (42) 8 U.S.C. §4332; 40 C.F.R. §1502.14); (2) failed to take a "hard look" at, provide a "full and 9 fair discussion" of, and provide sufficient evidentiary support for its conclusions 10 regarding the environmental impacts of the Project (40 C.F.R. §1502.1); (3) failed to 11 demonstrate the "underlying purpose and need to which the agency is responding in 12 proposing the alternatives including the proposed action" (40 C.F.R. §1502.13); and (4) 13 impermissibly deferred specification and analysis of the myriad mitigation measures on 14 which the FEIR/FEIS relies until after the completion of environmental review. 15

16

17

6. BLM violated the MBTA by failing to secure a permit for the take of the many protected bird species that will be harmed by the Project.

7. BLM violated the Eagle Act by allowing the unpermitted taking of protected
golden eagles that will be harmed by the Project.

8. BLM violated the APA by approving the Project without complying with the
foregoing environmental laws.

9. Accordingly, plaintiffs seek orders from this Court: (1) granting preliminary
injunctive relief restraining defendants from taking any action that would result in any
change to the physical environment in connection with the Project pending a full hearing
on the merits; (2) declaring that defendants violated the APA by failing to comply with
NEPA; (3) declaring that defendants violated the APA by failing to comply with the
MBTA; (4) declaring that defendants violated the APA by failing to comply with the
Eagle Act; and (5) granting permanent injunctive relief overturning BLM's Project

approvals pending defendants' compliance with NEPA, the MBTA, the Eagle Act, and
 the APA.

3

#### JURISDICTION AND VENUE

10. The Court has jurisdiction over this action under 28 U.S.C. sections 1331 4 5 (federal question), 1337 (regulation of commerce), 1346 (United States as defendant), 1361 (mandamus against an officer of the United States), 2201 (declaratory judgment) 6 and 2202 (injunctive relief), and under the APA, 5 U.S.C. sections 701-706 (review of 7 final agency action), because (1) the action arises under the APA, NEPA, MBTA, and the 8 Eagle Act; (2) BLM is an agency of the United States government and the individual 9 defendants are sued in their official capacities as officers of the United States; (3) the 10 action seeks a declaratory judgment voiding BLM's Project approvals; and (4) the action 11 also seeks further injunctive and mandamus relief until BLM complies with applicable 12 law. 13

14 11. Venue is proper in this judicial district pursuant to 28 U.S.C. section
15 1391(e)(2) because BLM and one or more individual defendants officially reside in this
16 judicial district, one or more of plaintiffs' causes of action arose in this judicial district,
17 and all of the lands and waters involved in the action are located in this judicial district.

18 12. There exists now between the parties an actual, justiciable controversy in
19 which plaintiffs are entitled to have a declaration of their rights, a declaration of BLM's
20 obligations under NEPA, the MBTA, and the Eagle Act, and further relief because of the
21 facts and circumstances hereinafter set forth.

13. This Complaint is timely filed within the applicable six-year statute of
limitations set forth in 28 U.S.C. section 2401(a).

14. Plaintiffs have standing to assert their claims because they use the public
lands on which the Project would be built, and would be harmed by the impacts of the
Project's construction and operation on plaintiffs' recreational, wildlife, cultural,
scientific, spiritual, aesthetic and safety interests. Plaintiffs have exhausted all applicable
remedies by commenting on and objecting to the Project before its approval.

#### PARTIES

2 15. Plaintiff THE PROTECT OUR COMMUNITIES FOUNDATION ("POC") is a community organization formed in 2009 as the successor to the Protect Our 3 Communities Fund, which was formed in 2006. POC is composed of numerous 4 5 individuals and families residing in eastern San Diego County and western Imperial County who are directly affected by BLM's approval of the Project. POC's purpose is the 6 promotion of a safe, reliable, economical, renewable, and environmentally responsible 7 energy future. POC's members currently use and intend to continue to use the areas 8 affected by the Project for aesthetic, scientific, historic, cultural, recreational, and 9 spiritual enjoyment. Construction and operation of the Project threatens to harm the use 10 and enjoyment of these public resources by POC's members as well as the public at large. 11 The Project also threatens to cause physical and psychological harm to POC's members 12 and other nearby residents through its emission of substantial audible noise, low-13 frequency noise and infrasound ("ILFN"), and electric and magnetic fields ("EMF"). 14 POC therefore seeks this Court's review and invalidation of BLM's Project approvals. 15 16. Plaintiff BACKCOUNTRY AGAINST DUMPS ("Backcountry") is a 16

community organization comprising numerous individuals and families residing in 17 eastern San Diego County and western Imperial County who will be directly affected by 18 the Project and its connected actions. Backcountry and its members are vitally interested 19 in proper land use planning and management in order to maintain and enhance the area's 20 ecological integrity, scenic beauty, wildlife, recreational amenities, and natural resources. 21 Backcountry's members use the area affected by the Project for aesthetic, scientific, 22 historic, cultural, recreational, and spiritual enjoyment. Construction and operation of the 23 Project threatens to harm the use and enjoyment of these public resources by 24 Backcountry's members as well as the public at large. The Project also threatens to cause 25 physical and psychological harm to Backcountry's members and other nearby residents 26 through its emission of substantial audible noise, ILFN and EMF. Backcountry therefore 27

28 seeks this Court's review and invalidation of BLM's Project approvals.

17. Plaintiff DONNA TISDALE lives on Morningstar Ranch, located two miles 1 west of Tierra Del Sol Road in Boulevard, California. She is a member of Backcountry 2 and POC. She is also the Chairwoman of the San Diego County's Boulevard Planning 3 Group. Ms. Tisdale currently uses and intends to continue to use the area that will be 4 harmed by the Tule Wind Project for activities such as hiking, family outings, recreation, 5 wildlife and wildflower viewing, sightseeing, photography, star gazing and quiet 6 meditation. Construction and operation of the Project will harm Ms. Tisdale's use and 7 enjoyment of these public resources. Ms. Tisdale therefore seeks this Court's review and 8 invalidation of BLM's Project approvals. 9

Plaintiffs' injuries are fairly tracable to BLM's actions. Construction and 18. 10 operation of the Project and connected actions will harm plaintiffs' use of the Project area 11 for recreational activities including natural and cultural study, wildlife and wildflower 12 viewing, scenic enjoyment, photography, hiking, family outings, star gazing and 13 meditation. These injuries are actual, concrete, and imminent. Plaintiffs have no plain, 14 speedy, or adequate remedy at law. Accordingly, plaintiffs seek injunctive, mandamus, 15 and declaratory relief from this Court to rectify BLM's unlawful acts and redress 16 plaintiffs' injuries. 17

18 19. Defendant KENNETH SALAZAR is the Secretary of the United States
 19 Department of the Interior and, in that capacity, is responsible for BLM's Project
 20 approvals. He is sued in his official capacity.

20. Defendant MIKE POOL is the Acting Director of BLM and is sued in his
official capacity. In that capacity, he is generally responsible for the activities of BLM
nationwide. Defendant POOL is responsible for BLM's Project approvals.

24 21. Defendant TOM ZALE is the Acting Manager of BLM's El Centro Field
25 Office Manager. In that capacity, he is responsible for BLM's ROW grant and its
26 September 17, 2012, NTP.

27 22. Defendant UNITED STATES DEPARTMENT OF INTERIOR ("DOI") is
28 the federal agency charged with managing most of the nation's federally owned lands,

including the Project site at issue here. DOI is also charged with ensuring compliance
 with applicable laws, including but not limited to NEPA, MBTA and the Eagle Act, in its
 management of those lands.

4 23. Defendant UNITED STATES BUREAU OF LAND MANAGEMENT
5 ("BLM") is an agency within DOI. Under federal law, BLM is charged with the
6 management of federal lands including the Project site for the benefit of the public and
7 consistent with all applicable laws.

BACKGROUND

As approved by the BLM in its ROD and ROW grant, the Project is slated to 9 24. be constructed on 12,360 acres of public land near the Jacumba and Boulevard 10 communities in eastern San Diego, approximately 70 miles east of the City of San Diego. 11 ROD 1. The proposed wind energy generation facility includes up to 62 turbines, 18.81 12 miles of new access roads, modifications to 11.08 miles of existing roadways, a five-acre 13 collector substation, an extensive system of overhead and underground 34.5 kV lines to 14 connect the turbines to the collector substation, a 138 kV generator-tie ("gen-tie") line to 15 connect the on-site collector substation to SDG&E's rebuilt Boulevard Substation, a 16 5-acre operations and maintenance building, three permanent meteorological towers, and 17 either a sonic detecting and ranging ("SODAR") unit or a light detecting and ranging 18 ("LIDAR") unit. ROD 31; ROW Grant 2. The Project would have an electrical 19 generation capacity of up to 186 MW. ROD  $1.^{1}$ 20

21

<sup>22</sup> <sup>1</sup> Up to 27 additional wind turbines are proposed to be constructed and operated on the Ewiiaapaayp Reservation and adjacent California State Lands Commission-23 managed land as part of the Tule Wind Reduced Ridgeline Project, which would 24 be connected to and operated in conjunction with the overarching Tule Wind 25 Project approved by BLM. The portion of the Tule Wind Project proposed for California-owned and Ewiiaapaayp Reservation lands is analyzed along with the 26 rest of the Project in the EIR/EIS. "Through [the] ROD, [however,] BLM ma[de] 27 no decision regarding those portions of the Tule Wind Project that are not located on BLM-managed lands." ROD 1. The Tule Wind Reduced Ridgeline Project 28 requires approval from the federal Bureau of Indian Affairs and the California

25. Also included in the Project, among other components, are "temporary
 construction facilities: a 10-acre parking and staging area and 12 two-acre construction
 laydown areas." ROW Grant 2. In addition, groundwater wells would have to be drilled
 in order to supply the Project with water during both construction and operation. In total,
 Project construction is expected to take 12 months to complete. ROD 4.

6 26. BLM and the CPUC jointly prepared the Project EIR/EIS to evaluate several
7 connected projects, including the Tule Wind Project, the ECO Substation Project, the
8 connecting Energia Sierra Juarez U.S. Generator-Tie Project ("ESJ Gen-Tie"), and the
9 Campo, Manzanita, and Jordan wind energy projects. They issued the Draft EIR/EIS
10 ("DEIR/DEIS") in December 2010. The agencies then published the FEIR/FEIS in
11 October 2011, and BLM relied on it in issuing the ROD, the ROW grant and the initial
12 NTP for the Project.

13 27. Plaintiffs submitted extensive comments on the DEIR/DEIS, and also
14 submitted comments during BLM's public scoping process. Additionally, Plaintiffs
15 submitted comments to the San Diego County Planning Commission on a proposed use
16 permit, a general plan amendment, and a zoning reclassification for the Project.

17 28. In this lawsuit, plaintiffs challenge BLM's Project approvals and associated
18 environmental review under NEPA, the MBTA, the Eagle Act, and the APA.

FIRST CLAIM FOR RELIEF 19 (Violation of the National Environmental Policy Act) 20 (Against All Defendants) 21 The paragraphs set forth above are realleged and incorporated herein by 29. 22 reference. 23 By approving the Tule Wind Project based on an inadequate EIS, BLM 30. 24 violated NEPA, 42 U.S.C. section 4321 et seq., and its implementing regulations, 40 25 C.F.R. section 1500 et seq. And by approving the Project without complying with NEPA, 26 27 28

State Lands Commission.

BLM failed to proceed in accordance with law in violation of the APA, 5 U.S.C. sections
 706(2)(A) and (D).

# 3 4 5

# <u>The FEIR/FEIS Fails to Analyze and Improperly Dismisses</u> <u>Feasible Project Alternatives</u>.

5 31. The alternatives analysis "is the heart of the environmental impact statement." 40 C.F.R. §1502.14. NEPA requires that an EIS "[r]igorously explore and 6 objectively evaluate all reasonable alternatives" so that "reviewers may evaluate their 7 comparative merits." 40 C.F.R. §1502.14; 42 U.S.C. §4332; City of Carmel-by-the-Sea v. 8 United States Dept. of Transp., 123 F.3d 1142, 1155 (9th Cir. 1997); Alaska Wilderness 9 Recreation & Tourism Association v. Morrison, 67 F.3d 723, 729 (9th Cir. 1995). 10 Analyzed alternatives should be wide-ranging and include options that may require 11 additional approvals or participation by others. Sierra Club v. Lynn, 502 F.2d 43, 62 (5th 12 Cir. 1974); see also Alaska Wilderness, 67 F.3d at 729; 40 C.F.R. §1502.14(c). "The 13 existence of a viable but unexamined alternative renders an environmental impact 14 statement inadequate." Friends of Yosemite Valley v. Kempthorne, 520 F.3d 1024, 1038 15 (9th Cir. 2008). 16

32. Here, BLM unacceptably eliminated from detailed review feasible – and less
environmentally damaging – alternatives that would meet the general Project objective of
increasing renewable energy development pursuant to state and federal renewable energy
policies. FEIR/FEIS A-8 to 9. Among others, BLM perfunctorily dismissed the
distributed generation alternative.

33. The FEIR/FEIS describes the distributed generation alternative as follows:
"Under this alternative, the ECO Substation, Tule Wind and ESJ Gen-Tie projects would
not be built. Instead, distributed generation including but not limited to residential and
commercial rooftop solar panels, biofuels, hydrogen fuel cells, and other renewable
distributed energy sources would be installed in the place of the Proposed PROJECT."
FEIR/FEIS C.5.4.1.

28

34. The FEIR/FEIS acknowledges that "this alternative, including rooftop solar,

1 would result in a significant net reduction in project impacts as compared with the Proposed PROJECT and would contribute directly to meeting state and federal renewable 2 energy resource goals." Id. Nevertheless, the FEIR/FEIS dismisses the distributed 3 generation alternative on the grounds that it would (1) not meet renewable energy goals 4 within the 2010-2020 time horizon; (2) only partially solve reliability issues to Boulevard 5 and Jacumba communities; and (3) would be infeasible from a technical and commercial 6 standpoint within the 2010-2020 time horizon. FEIR/FEIS C-56-58. The FEIR/FEIS 7 misstates the record. Distributed generation is feasible, cost-effective and would meet 8 state and federal renewable energy goals. 9

35. Distributed generation will provide ample renewable energy. If current rates 10 of installation continue in SDG&E's service area, between 800 and 1,000 megawatts of 11 distributed photovoltaic ("PV") solar generation will be installed by 2020. And there is 12 significantly more distributed generation potential with non-photovoltaic solar sources, 13 such as combined heat and power plants. These plants have the potential to provide 14 almost 400 megawatts of cost-effective energy generation. Combined, these and other 15 distributed generation sources could easily meet renewable energy goals within the 16 2010-2020 time horizon. This would be even more readily achievable if a portion of the 17 18 considerable funds, expertise and efforts going into developing remote industrial-scale renewable energy projects like the Tule Wind Project were redirected to distributed 19 generation projects and research. 20

Distributed generation, such as PV solar and combined heat and power, is 36. 21 also commercially viable now and becoming increasingly cost-effective. Indeed, 22 distributed PV systems are already cheaper than some remote industrial-scale renewable 23 energy projects, and they are predicted to soon become cheaper than most land-based 24 wind energy systems on both a per-kW-installed and levelized-cost-of-electricity basis. 25 They also *already* create nearly *three times* more permanent jobs than wind energy 26 projects for every peak MW added. In likely recognition of this trend, many utility-scale 27 renewable energy project developers themselves agree that distributed generation is the 28

1 future of renewable energy power.

37. Furthermore, distributed generation would increase the power supply
 reliability in the Boulevard and Jacumba areas, while also reducing the vulnerability of
 SDG&E's entire electrical grid to fires and other natural disasters.

5 38. BLM's failure to fully analyze a distributed generation alternative violated
6 NEPA.

#### 7 The FEIR/FEIS Fails to Take a "Hard Look" at Significant Environmental Impacts.

39. Under NEPA, an EIS must take a "hard look" at the environmental impacts
of proposed major federal actions and provide a "full and fair discussion" of those
impacts, one that is "reasonably thorough" and "foster[s] both informed decision-making
and informed public participation." *NPCA v. BLM*, 606 F.3d at 1072 (internal quotations
and citations omitted); *NPCA v. Babbitt*, 241 F.3d 722, 733 (9th Cir. 2001); *State of California v. Block*, 690 F.2d 753, 761; 40 C.F.R. §1502.1.

40. Here, the FEIR/FEIS' discussion of many environmental impacts is absent or
inadequate, as explained below.

#### 16 Noise impacts – Inadequate Modeling

41. "[A]lmost every time an EIS is ruled inadequate by a court it is because more
data or research is needed." *Save Our Ecosystems v. Clark*, 747 F.2d 1240, 1249 (9th Cir.
1984). That same deficiency plagues the FEIR/FEIS' noise impact analysis here.

42. "[T]he very purpose of NEPA's requirement that an EIS be prepared for all 20 actions that may significantly affect the environment is to obviate the need for 21 22 ... speculation by insuring that the available data is gathered and analyzed prior to the implementation of the proposed action." Foundation for North American Wild Sheep v. 23 U.S. Department of Agriculture, 681 F.2d 1172, 1179 (9th Cir. 1982). Yet here, BLM 24 *entirely failed* to model the noise generation and impacts from wind turbines with an 25 electrical generating capacity greater than 2 MW. Both the ROD and the FEIR/FEIS state 26 that the Project would use wind turbines "in the 1.5 to 3.0 MW generating capacity 27 range." ROD 1; FEIR/FEIS B-2, 4, 49. Despite the great disaprity in resulting noise 28

impacts from using 3.0-MW turbines versus 2.0-MW turbines, in "the assessment of wind 1 turbine-generated sound, [only] 2.0 MW turbines were modeled" in the FEIR/FEIS. 2 FEIR/FEIS 2.7-9. This violates NEPA. By not calculating noise emission estimates for a 3 3.0-MW turbine Project, BLM failed to take the requisite "hard look" at the Project's 4 5 noise impacts, which impermissibly left decisionmakers and the public to speculate about them. Foundation for North American Wild Sheep, 681 F.2d at 1179; Oregon Natural 6 Desert Association v. Singleton, 47 F.Supp.2d 1182, 1194 (D.Or. 1998) ("NEPA requires 7 that the agency develop the data first, and then make a decision, not make a decision and 8 then develop the data" (internal quotations and citation omitted)); 40 C.F.R. §1502.22 9 (when "there is incomplete or unavailable information" that is "essential to a reasoned 10 choice among alternatives and the overall costs of obtaining it are not exorbitant, the 11 12 agency shall include the information in the [EIS]").

## 13 Noise Impacts – Infrasound and Low-Frequency Noise

43. Despite the fact that Project operation is likely to produce substantial
infrasound and low-frequency noise ("ILFN"), the FEIR/FEIS fails to calculate, disclose,
or otherwise adequately assess the Project's ILFN impacts. By failing to do the required
ILFN impact study, and by offering excuses for its failure that are "contrary to the
evidence," BLM violated NEPA and the APA. *Oregon Natural Resources Council Fund v. Goodman*, 505 F.3d 884, 889 (9th Cir. 2007) (internal quotations and citation omitted).

44. During the public review process for the Project and its EIS, plaintiffs and 20 others submitted extensive evidence demonstrating that noise levels do not have to be 21 audible to cause substantial health impacts. For example, in one article submitted by 22 plaintiffs with their March 4, 2011, DEIR/DEIS comments, a group of researchers 23 reviewed the literature on impacts of wind turbine-generated ILFN and concluded that 24 "what you can't hear can also hurt you." FEIR/FEIS Volume 4, Comment Letter D33-31, 25 p. 24 (emphasis added). More specifically, they affirmed that "there is increasingly clear 26 evidence that" both audible noise and ILFN produced by wind turbines "is sufficiently 27 intense to cause extreme annoyance and inability to sleep, or disturbed sleep, in 28

individuals living near them," as well as other health impacts like visceral vibratory 1 vestibular disturbance, vertigo, headaches, dizziness, unsteadiness, tinnitus, ear pressure 2 or pain, fatigue, irritability, memory and concentration effects, loss of motion, cardiac 3 arrhythmias, stress and hypertension, among others. Id. at 24 (quote), 20-31. 4

5 45. Plaintiffs and others also produced evidence showing that ILFN levels are substantially underestimated – and often omitted entirely – by the A-weighted scale used 6 7 in the FEIR/FEIS to measure Project-generated noise. As the FEIR/FEIS itself states, the "A-weighting scale attenuates low-frequency noises" (FEIR/FEIS 2.7-9) and is instead 8 "representative of human [auditory] perception of sound." Id. at 2.7-10. Plaintiffs and 9 others explained that G-weighting (decibel levels expressed as dBG) rather than A-10 weighting (decibel levels expressed as dBA) is necessary to accurately quantify ILFN 11 levels, and urged BLM to make G-weighted noise level estimates. Indeed, commenters 12 even specified a physiologic impact threshold based on peer-reviewed research of 60 13 14 dBG. As Dr. Alec Salt explained:

A review found the G-weighted noise levels generated by wind turbines with upwind rotors [(like the wind turbines to be used in the Tule Project)] to be approximately 70 dBG. This is substantially below the threshold for hearing infrasound which is 95 [dBG] but is above the calculated level for [cochlear outer hair cell ("OHC")] stimulation of 60 [dBG]. This suggests that most wind turbines will be producing an unheard stimulation of [the ear].

18 FEIR/FEIS Volume 4, Comment Letter D31, p. 18.

15

16

17

21

19 46. Contrary to the clear evidence in the record of the health impacts caused by 20 wind turbine-generated ILFN and the need to measure ILFN using a G-weighted scale, BLM failed to make *any* G-weighted estimates of the ILFN levels to be generated by the 22 Project. FEIR/FEIS 2.7-10 ("the weighting scale used in the analysis [was] the A-23 weighting scale," though the "C-weighting scale [was also used] to simulate human 24 perception at higher sound levels, in excess of 70 dB"). By not calculating any ILFN 25 emissions estimates, it was simply impossible for BLM to take the requisite "hard look" 26 at the Project's noise impacts, which impermissibly left decisionmakers and the public to 27 speculate about them. 28

Nonetheless, despite making no Project-specific ILFN estimates, BLM 47.

speculated in its FEIR/FEIS response to comments that the ILFN "levels [to be produced 1 by the Project] are not harmful to the human body and in fact are produced by heartbeats 2 and other natural functions," and that "no adverse health effects from low-frequency 3 noise are [therefore] anticipated." FEIR/FEIS 2.7-22. Yet BLM's decision to disregard 4 5 ILFN impacts is unsupported by – and indeed *contradicts* – the applicable science and the evidence in the record, rendering its EIS certification and Project approvals based thereon 6 arbitrary and capricious. By failing to properly analyze or mitigate the Project's ILFN 7 emission impacts, and by offering excuses for its failure that are contrary to the evidence, 8 BLM violated NEPA and the APA. 9

## 10 Public Health Impacts – Dirty Electricity

48. The FEIR/FEIS fails to take the requisite "hard look" at the impacts of the
Tule Wind Project's emission and propagation of electric and magnetic fields ("EMF"),
especially in the form of electricity containing frequencies harmful to human health.

49. As numerous recent studies cited by plaintiffs and others during the public 14 review process for the Project and its EIS show, the health impacts of exposure to EMF 15 generated by electrical equipment can be severe. Of particular concern are the 16 intermediate- and high-frequency transients that commonly pollute what should be 17 18 narrow-band or exclusively 60-hertz ("Hz") electric and magnetic fields. This type of EMF pollution is also called "dirty electricity." The studies cited by plaintiffs and others 19 have linked dirty electricity to an increase in ailments such as cancer, diabetes, 20 fibromyalgia, chronic fatigue syndrome and attention deficit disorder, among others. 21

50. Here, the risk of public exposure to dirty electricity produced and propagated
by the Tule Project is high. As the FEIR/FEIS acknowledges, "[w]ind turbines create
electromagnetic fields from the power facilities that are part of the turbine makeup."
FEIR/FEIS 2.8-9. And wind turbine-generated EMF is frequently accompanied by highfrequency transients, *i.e.* dirty electricity. In his declaration accompanying plaintiffs'
March 4, 2011, comments on the DEIR/DEIS, EMF expert David Colling explains:

Wind turbines are one of the . . . sources of dirty electricity. To enable variable speed operation of wind turbines, the alternating current they

1

generate is first converted to direct current and then converted back into alternating current with the correct voltage and frequency. These conversions create higher frequency electrical currents that "ride" the 60-Hz sine wave and radiate from the collector lines that transmit the windgenerated electricity to substations. If not adequately filtered, the dirty electricity can be propagated through the substations and onto transmission and distribution lines.

FEIR/FEIS Volume 4, Comment Letter D33-32, pp. 1-2. The dirty electricity can also be
transmitted directly from the wind turbines to distribution lines through the atmosphere,
since the height of the wind turbine nacelles usually allows longer-distance aerial
radiation and the distribution lines serve as convenient antennas. From the transmission
lines, the dirty electricity is either shorted to the ground, whence it can be conducted into
nearby homes that lie in the ground currents' path, or it travels along the primary
distribution line directly into residences and other buildings. *See id*.

BLM belatedly admitted in the FEIR/FEIS response to comments that 51. 12 "[s]tray voltage could occur [from the Tule Wind Project]," and that "[i]nduced current 13 or stray voltage has the potential for adverse health effects if not properly grounded."" 14 FEIR/FEIS 2.8-9 (quoting a 2011 "data request response" from Iberdrola Renewables, 15 Inc.). Yet the FEIR/FEIS implies that the Project's production of dirty electricity and its 16 attendant health impacts need not be analyzed in depth because Iberdrola Renewables 17 will "confirm that [stray voltage will be] properly grounded." Id. As plaintiffs 18 explained in their DEIR/DEIS comments, however, grounding alone does not eliminate 19 dirty electricity. To the contrary, grounding – which, as discussed above, produces 20 ground current – is a medium by which dirty electricity may be *introduced* into homes, 21 schools and other vulnerable uses. FEIR/FEIS Volume 4, Comment Letter D33-32, pp. 2-22 5. 23

52. Without acknowledgment and analysis of grounding as a means of *exposing*the public to – rather than protecting them from – dirty electricity, and without *any*explanation of the grounding measures to be employed and how they would "confirm that
there are no stray voltage issues through the life of the project" (FEIR/FEIS 2.8-9
(internal quotations and citation omitted)), the FEIR/FEIS violates NEPA. *South Fork*

Band Council v. U.S. Department of Interior ("South Fork"), 588 F.3d 718, 727 (9th Cir.
 2009) (EISs must "discuss mitigation measures[] with 'sufficient detail to ensure that
 environmental consequences have been fairly evaluated," and they may not defer
 evaluation of "the effectiveness of the mitigation measures" (quoting Robertson v.
 Methow Valley Citizens Council, 490 U.S. 332, 353 (1989)).

6 Biological Impacts – Avian Species

7 53. The FEIR/FEIS fails to take the requisite "hard look" at the Tule Wind
8 Project's noise impacts on birds.

9 54. As FEIR/FEIS section D.8 discusses, the Project's construction and operational noise levels would be very high. The Project's "8-hour average construction 10 noise levels have been calculated to range up to 94 dBA at the property lines of nearby 11 properties." FEIR/FEIS D.8-23. And during operation, the FEIR/FEIS estimates that the 12 turbines would emit noise levels as high as 111 dBA, with noise levels exceeding 50 dBA 13 at a distance of nearly 1,000 feet from the nearest turbine. Id. at D.8-34. As plaintiffs 14 discussed in their March 4, 2011, comments on the DEIR/DEIS, these noise levels are 15 substantially greater than the impact threshold for numerous sensitive bird species that 16 reside in or otherwise utilize the Project area. 17

18 55. Particularly sensitive species in – or potentially present in – the Project area include the horned lark, loggerhead shrike, lease Bell's vireo and southwestern willow 19 flycatcher. FEIR/FEIS Appendix 1, pp. 37-39, 42, 43. According to expert testimony 20 from Dr. Travis Longcore, discussed in detail in and appended as an exhibit to plaintiffs' 21 22 DEIR/DEIS comments, the threshold for significant negative impacts on bird species similar to the birds just listed is much lower than the noise levels expected to be produced 23 in the Project vicinity. Dr. Longcore concludes that a "reasonable threshold based on 24 similar species for least Bell's vireo and southwestern willow flycatcher would be 40 25 dB(A) or below." FEIR/FEIS Volume 4, Comment Letter D33-33, p. 12 (emphasis 26 added). 27

28

56. Despite the strong evidence in the record that the Project-generated noise

would harm sensitive birds species in the area, the FEIR/FEIS entirely fails to discuss the 1 impact. Instead, the FEIR/FEIS merely notes that "indirect loss of" species such as the 2 southwestern willow flycatcher "from noise and increased human presence" would "be 3 adverse under NEPA," but would be ameliorated by various unrelated mitigation 4 measures.<sup>2</sup> Yet these vague statements provide no information *whatsoever* as to how and 5 in what ways the Project noise would impact sensitive and special-status birds, how those 6 impacts could be mitigated or avoided, or whether the proposed mitigation measures 7 would in fact reduce the impacts. The FEIR/FEIS' omission of an analysis of these 8 impacts is the complete antithesis of the "full and fair *discussion*" that NEPA requires (40 9 C.F.R. section 1502.1 (emphasis added)), and it constitutes a failure to "consider an 10 important aspect of" the biological and noise impact "problem[s]." Oregon Natural 11 Resources Council Fund, 505 F.3d at 889. 12

## 13 Global Warming

The FEIR/FEIS paints a rosy picture of the Project's global warming 57. 14 impacts, but it is based on wholly inadequate data and analysis. The FEIR/FEIS estimates 15 that the Project would produce less than 650 metric tons of CO2-equivalent emissions 16 annually from construction, operation and decommissioning. FEIR/FEIS D.18-17 to 18. 17 The FEIR/FEIS also asserts that because "the project would create a renewable source of 18 energy [it would] potentially decreas[e] overall emissions attributable to electrical 19 generation in California." Id. at D.18-18. Yet these estimates and assertions are deeply 20 flawed for two reasons. 21

22

58. First, the FEIR/FEIS fails to provide an estimate of how many megawatt-

23 24

<sup>2</sup> The mitigation measure most closely addressed to the Project's noise impacts on

<sup>25</sup> birds, BIO-7j, pertains specifically to *nesting* birds, with the goal of "avoid[ing] the potential for project-related nest abandonment and failure of fledging, and

<sup>26</sup> [the potential for project-related nest abandonment and failure of fledging, and minimiz[ing] any disturbance to nesting behavior." FEIR D.2-150. Neither

<sup>27</sup> measure BIO-7j nor any other mitigation measure listed in the FEIR/FEIS

addresses the impact of Project noise on *other* avian activities, such as masking the birds' songs and thereby reducing reproductive and foraging success.

hours per year the Project would produce. Without this information it is impossible to
determine how many tons per year of CO<sub>2</sub> or other greenhouse gases ("GHGs") the
Project would displace and thus how much, it at all, it would "decreas[e] overall
emissions attributable to electrical generation in California." FEIR/FEIS D.18-18. By
failing to "provide the data on which it base[d] its environmental analysis" of global
warming, BLM violated NEPA. Northern Plains Resource Council, Inc. v. Surface *Transportation Board*, 668 F.3d 1067, 1083 (9th Cir. 2011).

59. Second, while the FEIR/FEIS estimates some of the Project's greenhouse gas 8 emissions, it inexplicably fails to calculate the Project's entire *life cycle* GHG emissions. 9 Instead, the DEIS focuses solely on the GHG emissions from on-site Project construction 10 and operation. FEIR/FEIS D.18-17 to 18. Yet it is well-established through myriad 11 published life cycle analyses that wind energy projects have many more sources of GHG 12 emissions that just on-site construction, including equipment manufacture and 13 transportation. To fully analyze the Project's global warming impact in compliance with 14 NEPA, BLM was required yet failed to conduct a life cycle assessment of the Project's 15 GHG emissions. 16

17

18

# <u>The FEIR/FEIS Fails to Specify a Public Purpose and</u> <u>Demonstrate an Actual Need for the Project.</u>

60. NEPA requires that EISs "specify the underlying purpose and need to which 19 the agency is responding in proposing the alternatives including the proposed action." 40 20 C.F.R. §1502.13. Agencies have "considerable discretion" in defining their objectives, 21 but may not do so in "unreasonably narrow terms," so that "only one alternative from 22 among the environmentally benign ones in the agency's power would accomplish the 23 goals of the agency's action, and the EIS would become a foreordained formality." 24 National Parks & Conservation Assn. v. U.S. Bureau of Land Mgmt ("NPCA v. BLM"), 25 606 F.3d 1058, 1070 (9th Cir. 2010) (internal quotations and citation omitted). Thus, 26 agencies may not simply "adopt[] private interests to draft a narrow purpose and need 27 statement." Id. at 1071. Indeed, BLM's own "NEPA handbook explains that the 28

'purpose and need statement for an externally generated action must describe the BLM
 purpose and need, *not an applicant's or external proponent's purpose and need*.'" *Id*. at
 1071, n. 9 (emphasis in original) (quoting BLM National Environmental Policy Act
 Handbook H-1790-1 (January 2008), p.35).

5 61. Furthermore, BLM must not only specify a public need for the Project, it
6 must show that the asserted need *actually exists*. *See Rankin v. Coleman*, 394 F.Supp.
7 647, 656-57 (E.D.N.C. 1975) (EIS held inadequate for failing to cite and discuss factual
8 studies to "show the need for the 'ultimate' five-lane [highway] facility"); *see also* 40
9 C.F.R. §§1500.1(b), 1502.22, 1502.24.

62. Here, the FEIR/FEIS's statement of BLM's purpose and need reads: "the
purpose and need for the proposed action is to respond to a [Federal Land Policy and
Management Act ("FLPMA"), 43 U.S.C. section 1701 *et seq.*,] right-of-way application
submitted by Tule Wind . . . in compliance with FLPMA, BLM right-of-way regulations,
and other applicable Federal laws and Policies." FEIR/FEIS A-6. The FEIR/FEIS then
lists three such applicable authorities:

Executive Order 13212, dated May 18, 2001, which mandates that agencies act expediently and in a manner consistent with applicable laws to increase the production and transmission of energy in a safe and environmentally sound manner.

Section 211 of the Energy Policy Act of 2005 (EPAct 05 or EPAct), which established a goal for the DOI (BLM's parent agency) to approve at least 10,000 megawatts of non-hydropower renewable energy power on public lands by 2015.

 Secretarial Order 3285A1, Renewable Energy Development by the DOI, dated February 22, 2010. This Secretarial Order establishes the development of renewable energy as a priority for the DOI and creates a Departmental Task Force on Energy and Climate Change. It also announced a policy goal of identifying and prioritizing specific locations (study areas) best suited for large-scale production of solar energy.

*Id.* This bare recitation of broad renewable energy goals does not satisfy NEPA's demand
 for a statement and showing of public purpose and need for at least two reasons.
 63. First, it is insufficient for NEPA purposes to merely reiterate BLM's

statutory duty to review "right-of-way application[s] submitted" to it. FEIR/FEIS A-6.

Rather, BLM must explain the "underlying purpose and need" for the Project, the lease of

27

publicly-managed desert wildlands for an industrial-scale wind energy generation project.
 40 C.F.R. §1502.13 (emphasis added).

Second, while the FEIR/FEIS lists three federal directives intended to 64. 3 increase renewable energy production, nowhere does it explain whether and why the Tule 4 Wind Project is needed to satisfy those policy goals. Merely stating that those federal 5 objectives exist is insufficient to satisfy NEPA's informational purposes, which require 6 the "inclu[sion] [in the EIS of] information" that is "essential to a reasoned choice among 7 alternatives." 40 C.F.R. §1502.22. NEPA requires that the EIS analyze where the 8 electricity to be generated by the Project would be used and whether there is an existing 9 or projected supply shortage, a dearth of renewable energy generation, or some other 10 condition or mandate that necessitates this Project's – as distinct from other alternative 11 projects' – electrical generation. *Id.*; *Rankin*, 394 F.Supp. at 656-67. Only then can the 12 need for the Project, and the feasibility and reasonableness of alternatives thereto, be 13 adequately evaluated. The FEIR/FEIS fails to demonstrate such a need for this particular 14 Project and thereby precludes a fully informed analysis of Project alternatives. 15

#### 16

17

18

19

20

21

22

23

24

25

26

27

28

# <u>The FEIR/FEIS Improperly Defers Specification</u> <u>and Analysis of Mitigation Measures.</u>

65. The FEIR/FEIS defers specification of numerous mitigation measures until after the completion of environmental review. The deferred measures included, among others, the noxious weeds and invasive species control plan, the habitat restoration plan, the stormwater pollution prevention plan, the dust control plan, avian protection plans, the cultural resources treatment program, the traffic control plan, the construction fire prevention/protection plan, and site-specific noise mitigation plans. BLM's deferral of all of these mitigation plans violates NEPA.

## SECOND CLAIM FOR RELIEF

(Violation of the Migratory Bird Treaty Act) (Against All Defendants)

66. Plaintiffs incorporate by reference all preceding paragraphs.

67. The Migratory Bird Treaty Act ("MBTA"), 16 U.S.C. section 701 *et seq.*,
directs that unless otherwise permitted, "it shall be unlawful at any time, by any means or
in any manner, to . . . take [or] kill . . . any migratory bird . . . nest, or egg of any such
bird . . . included in the terms of the conventions between the United States and Great
Britain . . . the United Mexican States . . . the government of Japan . . . and the Union of
Soviet Socialist Republics for the conservation of migratory birds and their environments
. . . . " 16 U.S.C. section 703.

68. The MBTA applies with equal force to federal agencies as it does to private
individuals. *Humane Society of the U.S. v. Glickman*, 217 F.3d 882, 884-88 (D.C.Cir.
2000); *American Bird Conservancy, Inc. v. F.C.C.*, 516 F.3d 1027, 1032 (D.C.Cir. 2008).
And it may be enforced against the federal government by private citizens through the
APA. *Id.* "[A]nyone who is 'adversely affected' by an agency action alleged to have
violated the MBTA has standing to seek judicial review of that action." *City of Sausalito v. O'Neill*, 386 F.3d 1186, 1203-04 (9th Cir. 2004).

69. Federal agencies like BLM must ensure that their actions do not result in
violations of MBTA. *City of Sausalito*, 386 F.3d at 1225; *Mahler v. U.S. Forest Service*,
927 F. Supp. 1559, 1573 (S.D.Ind. 1996); *Humane Society*, 217 F.3d at 885 (D.C. Cir.
2000); *Robertson v. Seattle Audubon Soc.*, 503 U.S. 429, 438-39 (1992); Exec. Order No.
13186, Responsibilities of Federal Agencies to Protect Migratory Birds, 66 Fed. Reg.
3853 (Jan. 17, 2001). Here, however, BLM has failed to comply with the MBTA.

70. Numerous migratory bird species inhabit or use the Project site, including
among others, the golden eagle, the California condor, the Cooper's hawk, the burrowing
owl, the northern harrier, the turkey vulture, the California horned lark, the loggerhead
shrike, the gray vireo, the least Bell's vireo, the southwestern willow flycatcher, the olivesided flycatcher, the yellow warbler, the long-eared owl, the Bell's sage sparrow, the
southern California rufous-crowned sparrow, the Vaux's swift and the tricolored
blackbird. FEIR/FEIS Appendix 1, pp. 32-43.

28

71. As the FEIR/FEIS recognizes, these "special-status bird species have the

potential to collide with towers and transmission lines and have the potential to be 1 electrocuted by the transmission towers associated with the Tule Wind Project, resulting 2 in injury or mortality." FEIR/FEIS D.2-169; D.2-116 ("Presence of transmission lines 3 and wind turbines may result in electrocution of, and/or collisions by, listed or sensitive 4 5 bird or bat species"); D.2-176 ("the operation of wind turbines proposed by the project would result in an adverse impact to golden eagle[s]"); D.2-177 (same impact to Vaux's 6 swift). A rough calculation using BLM's bird fatality estimates demonstrates that the 7 Project's wind turbines would kill at least 37 raptors per year. FEIR/FEIS D.2-172 8 (estimated mortality rate of "0.2 birds/MW/year" multiplied by the Project's 186 MW 9 generating capacity). 10

72. Furthermore, in addition to the direct killing of these birds, the FEIR/FEIS
admits that the Project's wind turbines would create "a behavioral avoidance area, thereby
establishing a barrier in the aerial habitat used by birds and bats." FEIR/FEIS D.2-167.
This displacement of birds from their nesting and foraging habitat – thereby directly
harming or killing the displaced birds – also constitutes a take under the MBTA. 16
U.S.C. §703.

73. Despite the fact that the Project is likely to kill migratory birds during both 17 18 the construction and operation phases, BLM has not applied for or secured any permits under the MBTA. FEIR/FEIS D.2-116 ("Construction activities would result in a 19 potential loss of nesting birds (violation of the Migratory Bird Treaty Act)"); D.2-164 20 (same, listing mitigation measures); D.2-186 (violation of MBTA for maintenance 21 22 activities). And while BLM has listed compliance with MBTA as a potentially required permit, nowhere in its FEIR/FEIS is there even a requirement that Tule, the Project 23 applicant, obtain any kind of MBTA permit. FEIR/FEIS A.16. 24

74. By failing to first obtain, or require that the Project applicant or operators
obtain, an MBTA permit before approving the Project and allowing the unpermitted
taking of migratory birds, BLM violated the MBTA (16 U.S.C. section 703) and the
APA's prohibition on unlawful agency action (5 U.S.C. section 706(2)(A) and (D)).

1	THIRD CLAIM FOR RELIEF			
2	(Violation of the Bald Eagle and Golden Eagle Protection Act)			
3	(Against All Defendants)			
4	75. Plaintiffs incorporate by reference all preceding paragraphs.			
5	76. The Bald and Golden Eagle Protection Act ("Eagle Act"), 16 U.S.C. section			
6	668, contains criminal and civil prohibitions against the taking of Golden Eagles.			
7	Subdivision (b) makes it a civil offense to "take in any manner any golden eagle."			
8	16 U.S.C. §668(b). Under the Eagle Act, "take' includes also pursue, shoot, shoot at,			
9	poison, wound, kill, capture, trap, collect, molest or disturb." 16 U.S.C. §668c; 50 C.F.R.			
10	§22.3 ("Take includes also pursue, shoot, shoot at, poison, wound, kill, capture, collect,			
11	or molest or disturb").			
12	77. As discussed above, the FEIR/FEIS recognizes that Project operation would			
13	almost assuredly kill birds, including golden eagles. It is thus a near certainty that the			
14	Project will "take" golden eagles and thereby violate the Eagle Act. And while Tule has			
15	developed an Avian and Bat Protection Plan ("ABPP") in consultation with BLM and the			
16	U.S. Fish and Wildlife Service ("FWS") (ROD 20), BLM admits that neither the ABPP			
17	nor FWS' concurrence "will in and of [themselves] authorize take of golden eagles or			
18	determine that no take will occur." FEIR/FEIS D.2-182.			
19	78. By permitting the Project and its almost certain killing and/or other "taking"			
20	of golden eagles, BLM violated the Eagle Act and failed to proceed in accordance with			
21	law as required by APA sections 706(2)(A) and (D).			
22	PRAYER FOR RELIEF			
23	79. As relief for the above violations of law, plaintiffs respectfully request the			
24	following:			
25	1. Adjudge and declare that the BLM's Project approvals – including its			
26	December 19, 2011, ROD (as amended), its April 10, 2012, ROW			
27	grant and its September 17, 2012, NTP – violate NEPA, the MBTA,			
28	the Eagle Act and the APA;			

1		2.	Order BLM to withdraw its Project approvals and its October 2011
2			FEIR/FEIS until such time as it has complied with NEPA, the MBTA,
3			the Eagle Act, and their implementing regulations;
4		3.	Preliminarily and permanently enjoin BLM from initiating or
5			permitting any activities in furtherance of the Project that could result
6			in any change or alteration of the physical environment unless and
7			until the defendants comply with the requirements of NEPA, the
8			MBTA, the Eagle Act, and their implementing regulations;
9		4.	Award plaintiffs their reasonable attorneys' fees and costs and
10			expenses incurred in connection with the litigation of this action
11			pursuant to the Equal Access to Justice Act, 28 U.S.C. section 2412, or
12			as otherwise provided by law; and
13		5.	Any other relief that this Court deems just and proper.
14			
15	Dated:	March 12,	2013Respectfully submitted,
16			/s/ Stephan C. Volker
17			STEPHAN C. VOLKER Attorney for Plaintiffs THE PROTECT OUR
18			COMMUNITIES FOUNDATION, BACKCOUNTRY AGAINST DUMPS, and
19			DONNA TISDALE
20			
21			
22			
23			
24			
25			
26			
27			
28			
	1		

I