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25 of October, 2010

James Pine
Fire Marshal
San Diego County Fire Authority
734 W. Beech Street, Suite 301
San Diego, CA 92101

Re: Disproving Alleged 35 Turbine Fires Per Year Statistic Cited in International Association of Electrical Inspectors News Magazine

Dear Mr. Pine,

Iberdrola Renewables is keenly aware that preventing back-country fires is an issue of vital importance in San Diego. We have made significant efforts to design the Tule Wind Project to minimize fire risk. For example, we have committed to install fire suppression systems in the wind turbine nacelles as an additional layer of fire prevention, although these systems are in early development and are not widely implemented in the wind power industry.

Throughout our project design efforts, we have appreciated a high level of engagement with the San Diego County Fire Authority and the San Diego Rural Fire Protection District. The assistance provided to us by Chief David Nissen, Mr. Ralph Steinhoff, and yourself have helped us to reduce the project's fire risk even further.

At a July 22, 2010, interagency fire meeting hosted by the County, Mr. Steinhoff cited an article published in the May-June 2010 edition of the International Association of Electrical Inspectors (IAEI) News magazine, which discussed wind turbine fires. See Exhibit A, IAEI News, Sergio Panetta, "Grounding of Wind Power Systems and Wind Power Generators", p. 16 (May-June 2010). The IAEI article claimed that "California reports 35 turbine generated fires per year due to short circuiting and lightning." *Id.* at p. 18. This figure appeared extremely high to us based on our experience, so we investigated.

We found that the article's claim has no basis in fact. No California agency we consulted specifically tracks turbine-related fires as a statistic, much less reports them at a rate of 35 fires per year. Instead, we found that the source of this "statistic" is an anti-wind power website maintained by the Keepers of the Blue Ridge. Not only did the Keepers website not provide attribution for the figure, but also the group removed the figure when

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challenged by the California State Fire Marshal's office. Further, through our independent research with the California State Fire Marshal's office and local fire agencies in counties with wind turbines, we have only been able to confirm four (4) turbine-related fires in California since January 1, 2008 (a rate of approximately 1.3 turbine fires per year, statewide).

I. THE IAEI ARTICLE CITES AN ANTI-WIND POWER WEBSITE THAT APPEARS TO HAVE FABRICATED THE 35 WIND TURBINE FIRE CLAIM

The IAEI article attributes the 35 wind turbine fire per year "statistic" to a website maintained by the Keepers of the Blue Ridge, a North Carolina-based anti-wind power advocacy group dedicated to stopping wind power projects in the Blue Ridge Mountains.[1] Exhibit A, p. 18, n.5. In its entirety, the Keepers of the Blue Ridge website alleged:

> California reports 35 turbine generated fires per year due to short circuiting and lightning. A single turbine may contain up to 200 gallons of oil; the transformer at the base of each turbine may contain another 500 gallons of oil. In rural areas even a spark can easily develop into a large fire before discovery is made and fire-fighting can begin.

Exhibit B, Keepers of the Blue Ridge website, p. 5 (September 1, 2010). The IAEI article took the quote verbatim from the Keepers of the Blue Ridge website. *Compare* Exhibit A, p. 18, *with* Exhibit B, p. 5.

We sought independent confirmation of the "statistic" from the California Office of the State Fire Marshal and the California Energy Commission. We learned that neither office specifically tracks wind turbine-related fires, and neither agency was responsible for or could confirm the 35 wind turbine claim from the Keepers website.

At the State Fire Marshal's Office, we worked with Kirsti Fong who serves as the Program Coordinator for the National Fire Incident Report System (NFIRS) and California All Incident Reporting System (CAIRS). The CAIRS database is housed in the Office of the State Fire Marshal / CalFire and is a centralized data repository of all fire incident reports from state and local agencies. Reports from the CAIRS system are fed into the NFIRS system, which is also maintained by Ms. Fong in California, but is under the jurisdiction of the Federal Emergency Management Agency (FEMA) and the Department of Homeland Security.

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[1] The Keepers' mission statement explains: "Keepers of the Blue Ridge are dedicated to supporting the 1983 Mountain Ridge Protection Act and protecting the NC mountains for future generations. We are working together to stop commercial wind development on our protected ridges. We believe that commercial wind energy is an inefficient and expensive form of alternative energy that will adversely affect our local economy, our culture, our scenic view sheds, our wildlife and natural environment, and our quiet enjoyment. We believe installation of utility scale wind turbines will be a violation of the 1983 'Ridge Law'." *See* http://www.keepersoftheblueridge.com/ (last visited October 15, 2010).

Ms. Fong completed searches in the CAIRS database in an attempt to verify the statistic from the Keepers website, but found that there is no specific code in the CAIRS system for fires at wind power facilities, so the statistic could not have been generated by CAIRS. In addition, Ms. Fong spoke to her colleagues at the State Fire Marshal's Office to determine if this statistic had been generated by their office or if this information existed in the Department. Ms. Fong confirmed that the statistic was not created by their Department, and no one she consulted had heard of such a statistic.

Because the Keepers website itself gave no attribution for the statistic, Ms. Fong contacted the group through its website information link to determine its source. Although she received no response to her inquiry, the website was subsequently updated to remove the 35 wind turbine fire claim. Exhibit C, Keepers of the Blue Ridge website, p. 7 (October 15, 2010) (replacing the assertion that "California reports 35 turbine generated fires per year due to short circuiting and lightning", with the equally unsubstantiated assertion that "Turbine related fires are not uncommon").

We also contacted Sandra Fromm, Supervisor with the Public Interest Energy Research Division of the California Energy Commission (CEC). Ms. Fromm provides research to the CEC on renewable energy in California. Ms. Fromm was unable to find any data at the CEC that could corroborate the claim made by the Keepers website. In addition, Ms. Fromm noted in an e-mail communication that she had discussed the claim with other people within her department and, "although it may be possible for a wind turbine to catch fire from the oil in the gear box, no one has heard of fires occurring, let alone 35."

Based on a complete lack of any corroborating evidence, we conclude that the IAEI article erred when citing the unattributed and unsubstantiated claim on the Keepers of the Blue Ridge website. Not only was this "statistic" removed when questioned, but also neither the Program Coordinator of the State's fire incident database nor the Supervisor of the State's public interest energy research division could corroborate the information.

II. INDEPENDENT RESEARCH TO IDENTIFY WIND TURBINE RELATED FIRES IN CALIFORNIA

Parallel to our investigation on the Keepers website claim, we also undertook an independent investigation of available information to identify wind turbine related fires in California in the period between 2008 and 2010. Due to the fact that the CAIRS system does not specifically track fires attributed to wind power projects, much less fires associated with the wind turbines themselves, we cannot certify that we identified every wind turbine fire in California. We believe, however, that our research clearly demonstrates that the Keepers website's claim is wholly inaccurate, and have transparently described our methodology here so that it can be reviewed and interpreted by the County.

Working with Kirsti Fong of the Office of the State Fire Marshall, we identified codes in the CAIRS system for fires at or caused by electrical generating facilities [Code 610 – Energy Production Plan, Other; and Code 615 – Electric Generating Plant].

Focusing on these codes, we requested that Ms. Fong provide Iberdrola with a list of all fires related to electrical generating facilities from January 1, 2008 to the present. In response, Ms. Fong provided a spreadsheet describing ninety-five (95) fire incidents across

California, which occurred between January 1, 2008 and September 2, 2010, the date of her report. *See* Exhibit D, Office of the State Fire Marshal, "All Reported Fires by Property Use - Electric Generating Plant/Energy Production Plant" (September 2, 2010). The spreadsheet provides key information, including the fire department that responded to the incident, the City and County in which the incident occurred, the incident type, and the amount of property loss, among others.

After reviewing the spreadsheet, we broadly requested incident reports in jurisdictions with known wind power facilities.[2] After performing an internal confidentiality screening, Ms. Fong provided us with fifteen (15) incident reports. *See* Exhibit E, Office of the State Fire Marshal, Select Incident Reports from Alameda, Kern, and Riverside Counties.

Upon closer inspection, we determined that seven (7) incidents actually occurred at or near wind power facilities. We then contacted the fire departments that responded to each incident, provided them with the incident report number, and asked if they could provide additional information about the event. Specifically, we asked if a wind turbine was involved in the fire, whether it had been determined what caused the fire, what type of turbine was involved, and for any additional information they could provide.

The following is a brief summary of each of the wind energy facility incidents we identified (including one recent event that we uncovered during our conversation with the Riverside County Fire Department), arranged by oldest to most recent.

A. Four Confirmed Wind Turbine Fires, 2008 - 2010

- Incident Number 0002769 occurred on May 9, 2008, in Palm Springs (Riverside County) within the jurisdiction of the Palm Springs Municipal Fire Department. A public information official at the Palm Springs Fire Department stated that the fire occurred in a wind turbine nacelle and fully destroyed the nacelle. The incident report states that, "I contacted Rick Kolitz a supervisor with AES the operators of the windmill farm. He advised me that the probable cause of the fire was to an overheated generator." This clearly involved the nacelle with small ground fires started by falling debris.

- Incident Number 0822604 occurred on July 19, 2008, in the City of Tehachapi (Kern County) in the Kern County Fire Department jurisdiction. The Kern County Fire Department stated that the fire occurred in the wind turbine nacelle. The incident report states, "found wind turbine smoldering and dropping chunks of insulation to the ground. Crew extinguished 1 small spot fire on the ground."

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[2] Data was requested on incidents in the following fire department ("FD") jurisdictions: Merced County FD, Alameda County FD, Kern County FD, Riverside County FD, Palm Springs FD, and Hemet FD. We did not request incident reports in situations where it was clear from the Exhibit D description that wind power facilities were not involved (for example, we did not request Alameda County Fire Department incidents where the "incident type" was "passenger vehicle fire").

- Incident 68515 occurred on August 4, 2008, in North Palm Springs (Riverside County) in the Riverside County Fire Department Jurisdiction. The report indicates that it occurred in the windmill transformer sub-station, at the base of the turbine. The incident report indicates that the fire did not involve the nacelle, did not cause any associated vegetation fire, and did not impact the wind turbine itself (the report notes, "the wind turbine was opened, and AES employees confirmed the electrical panels inside received no damage"). Although the fire did not involve the wind turbine itself, it occurred in associated equipment, and was therefore included as a wind turbine fire. Representatives from the Riverside County Fire Department were not able to elaborate on the event citing the confidentiality of the reports for liability reasons.

- In our discussions with the Riverside County Fire Department, they also informed us of an additional incident that occurred in Fall 2010, which appears to have occurred after Ms. Fong prepared the Exhibit D spreadsheet. The Riverside County Fire Department stated that a fire occurred in a wind turbine nacelle, however, no information about turbine type was available. The fire caused damage to 69 acres in the Whitewater Canyon area near Palm Springs.[3]

B. Two Incidents At Wind Power Facilities With Undeterminable Cause, 2008 - 2010

- Incident Number 0816142 occurred on August 28, 2008 in the City of Livermore (Alameda County) in the Alameda County Fire Department jurisdiction. The incident report notes that the fire was a "veg fire at the windmill farm," but states that the cause of the fire is "undetermined." No property damage was reported. Although the cause of the fire is undetermined, if the nacelle were involved, it is likely that property damage would have been reported.

- Incident Number 3544 occurred on August 25, 2010, in the City of Altamont (Alameda County). The type of incident was a grass fire. The incident report notes that "the general area of the fire origin was in the area of the windmills." The report goes on to note that the windmills were not operating and that a circuit had been tripped. The fire department official states, "I located both windmills and reexamined the area looking for evidence. Nothing was found in the area…Further examination of the specific origin area did not reveal any other source of ignition." The report states in the Factors Contributing to Ignition section that there was an "unspecified short-circuit arc." Therefore, it is undeterminable whether the windmill nacelle was the source of the fire, although the fact that there was only $300 worth of fire damage makes it unlikely that the fire occurred within the nacelle.

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[3] We tried to independently confirm this incident with the State Fire Marshal's Office, but Ms. Fong was unable to locate any reported incidents in their database that matched this description. Nonetheless, we included the incident here in an excess of caution.

C. Two Incidents At Wind Power Facilities Not Attributable to Nacelle Fire, 2008 - 2010

- Incident Number 2094 occurred on May 19, 2009 in the City of Altamont (Alameda County), in the Alameda County Fire Department jurisdiction. The incident report indicates that the fire was a grass fire, "next to several windmills." However, the report notes that the equipment involved in the ignition of the fire was "electrical distribution." Therefore, we concluded that the wind turbine was not involved.

- Incident Number 0913160 occurred on July 29, 2009, in the City of Livermore (Alameda County) in the Altamont Pass. The report indicates that the type of incident was a grass fire and 0.5 acres were burned. The incident report states "the fire started due to employees re-energizing the windmills due to a power outage. A panel short circuited starting the fire." There was no property damage from the fire. This appears to be a fire caused by employee error, but it does not appear to be related to the wind turbine.

D. Summary of Independent Research

Based on the foregoing, our research shows that of the ninety-five (95) fire incidents at electrical generating facilities reported to the State of California between January 1, 2008 and September 2, 2010, including another incident that was reported to us during our research, only eight (8) incidents were related to or near wind power facilities. Of those eight (8) incidents, only four (4) incidents could be confirmed to involve the wind turbine, a rate of approximately 1.3 turbine fires per year, statewide, between 2008 and 2010.

Although we were unable to obtain information about the turbine type and age due to fire department confidentiality rules, it is highly likely that these four (4) turbine fires occurred in older models without the modern safeguards to be incorporated as standard equipment on the Tule Wind Project turbines. Furthermore, it is a virtual certainty that none of these turbines were equipped with fire suppression systems, based on the fact that such systems are in early development and are not widely implemented in the wind power industry.

III. CONCLUSION

Our research shows that the IAEI article erroneously relied on an unattributed, undocumented assertion that California reports thirty-five (35) wind turbine fires per year. Not only was this "statistic" removed from the Keepers of the Blue Ridge website when questioned by the State Fire Marshal's Office, but also neither the Program Coordinator of the State's fire incident database nor the Supervisor of the State's public interest energy research division could corroborate the information. It appears that the IAEI article is another victim of an Internet age when fact-checking follows, instead of preceding, publication.

Further, our analysis identified only four (4) confirmed wind turbine-related fire incidents in the period between January 1, 2008 and Fall 2010 (including one recent nacelle fire for which we did not receive an incident report) – a rate of approximately 1.3 turbine fires

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per year. This number of wind turbine incidents in California is less than 4% of the number of incidents alleged in the IAEI article.[4] To place this number in context, the California Wind Energy Association calculates that there are approximately 11,000 wind turbines currently in operation in California. *See* http://www.calwea.org/bigPicture.html (last visited October 18, 2010) (based on the combined number of "Number of Turbines" in "Major Wind Development Areas", including the Altamont Pass (4,489), San Gorgonio Pass (2,675), Solano County (627), and Tehachapi (3,252)).

Although we were unable to obtain information about the turbine type and age due to fire department confidentiality rules, it is highly likely that the few turbine fires that did occur started in older models unequipped with the modern safeguards to be incorporated as standard equipment on the Tule Wind Project turbines. Moreover, it is a virtual certainty that none of those turbines were equipped with fire suppression systems like the Tule Wind Project turbines will be. Accordingly, we hope you agree that the Tule Wind Project's wind turbines will pose a less than significant risk of fire to the back-country in San Diego County.

Yours Sincerely,

K. Harley McDonald
Business Developer
Iberdrola Renewables

Enclosures

Cc: Edmund Clark, Iberdrola Renewables
Chief David Nissen, San Diego Rural Fire Protection District
Cynthia Eldred, Law Offices of Cynthia Eldred
Ralph Steinhoff, San Diego County Fire Authority
Patrick Brown, Department of Land Use and Planning, County of San Diego
Robin Church, RCC Biological Consulting
Jim Hunt, Hunt Research, Inc.
Christopher W. Garrett, Latham & Watkins LLP
Ryan R. Waterman, Latham & Watkins LLP

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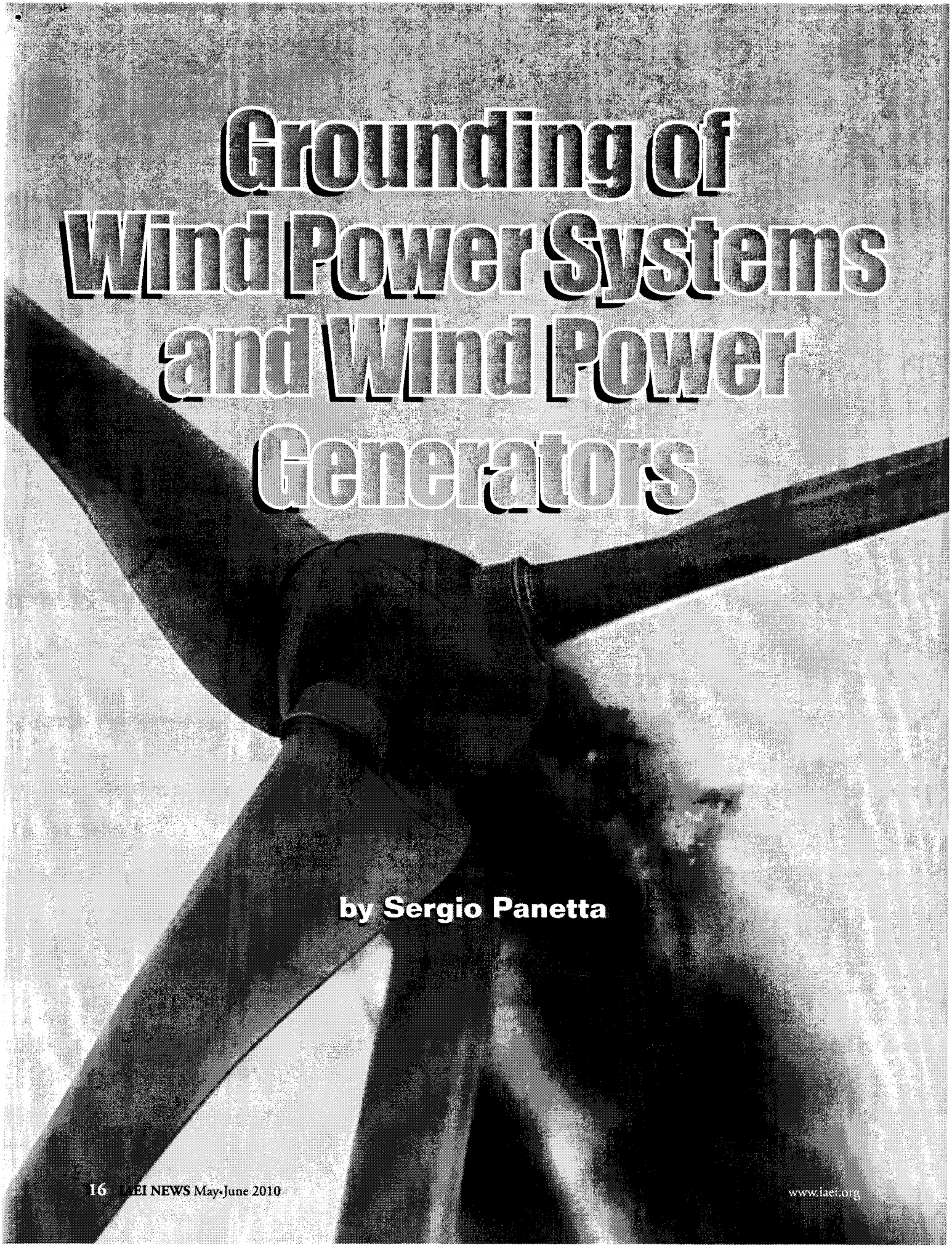
[4] The IAEI article alleges that California reports 35 wind turbine fires per year. At that rate, California should have reported 105 turbine fires between 2008 to 2010. Instead, we found only four (4) confirmed turbine fires, less than 4% of that alleged in the article.

Exhibit A

IAEI News, by Sergio Panetta,

“Grounding of Wind Power Systems and Wind Power Generators” (May-June 2010).

Grounding of Wind Power Systems and Wind Power Generators



by Sergio Panetta

Power continuity is essential in wind power projects where a tripped overcurrent device due to ground fault can have serious economic or operational consequences. An arcing phase-to-ground fault can totally destroy the equipment. Consequential downtime adds to the economic loss. Four typical grounding methods for generators and power systems are examined for these factors and the article concludes that resistance grounding provides the best protection against arcing ground-fault damage in wind power projects with distribution systems and improves reliability and availability of the power systems.

Grounding of Generators

The generators can be ungrounded, high-resistance grounded, low-resistance grounded or solidly grounded. In solidly grounded generators, very high fault currents can flow in the event of a phase-to-ground fault with a possibility of extensive fault damage[4] and consequential loss of revenue. In addition, there is a possibility of high harmonic current flows when the generator and step-up transformers are solidly grounded. Applying low-resistance grounding reduces the potential damage due to phase-to-ground faults, but the generator must be tripped and isolated with a consequential loss of revenue. With high-resistance grounding, a phase-to-ground fault can be annunciated[4] and the generator kept running. An ungrounded generator can be used if the cable length to the step-up transformer is relatively small. With long cable lengths in multiple generator systems, the generator to transformer section becomes susceptible to transient overvoltages in case of intermittent phase-to-ground faults. This could lead to subsequent 2nd phase-to-ground failure elsewhere in the network leading to catastrophic damage.

Power Collection System

Wind power generators are usually Y-connected and ungrounded. Voltage is less than 1000 V.[1] The rated power output can be 50 kW for small units, and up to 2.5 MW for larger units. A molded-case circuit breaker with overcurrent and instantaneous protection is used. The generator is cable-connected to a Y-configured step-up transformer primary. The transformer primary neutral can be ungrounded, resistance grounded or solidly grounded.

The transformer secondary is usually connected in delta and can be 5, 15, or 36 kV for areas which follow ANSI specifications, and 3.3, 11, 20, or 33 kV for areas following IEC specifications.

This arrangement can be a single generator to transformer, as shown in figure 1 or multiple generators to a transformer, as shown in figure 2. Power is collected through many such transformers on a wind farm in the medium voltage (MV) distribution network, and exported to the utility network at the point of common coupling, as shown in figure 3.[2]

MV Circuits

Solidly grounded circuits lead to high-fault currents due to phase-to-ground faults and may cause extensive damage and high-step or touch voltages. Low-resistance grounding thus lowers the phase-to-ground fault current and allows time-current coordinated trips to isolate the faulty circuit. High-resistance grounding is not suggested, since the cable capacitance can be quite high due to the total length of the MV cable at the collection voltage. When the MV network is left ungrounded on the occurrence of a phase-to-ground fault, the voltage on the other two phases to ground rises to phase-to-phase value, but the operation of the wind farm remains uninterrupted.[3]

An ungrounded MV network is subjected to transient overvoltages on the two healthy phases in the case of

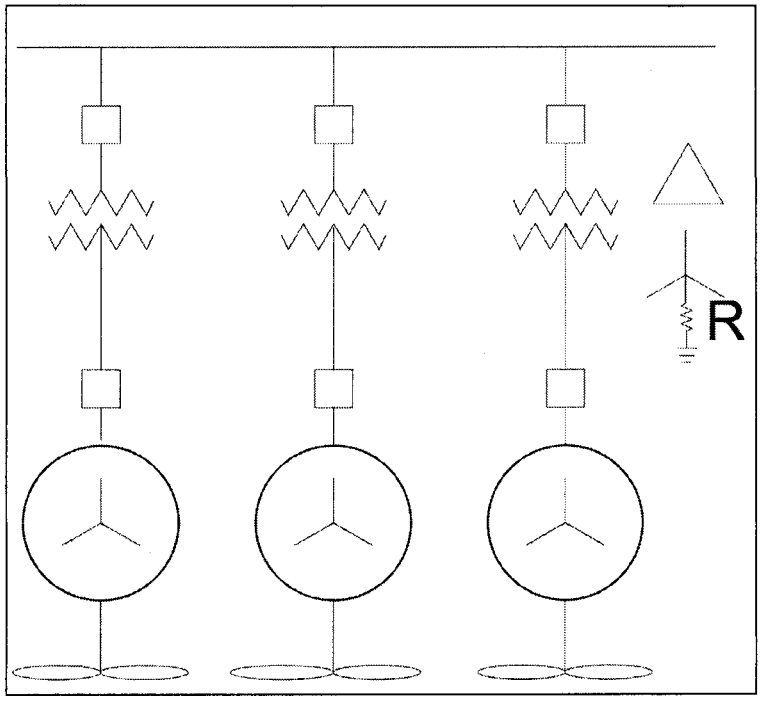


Figure 1. Single generator to transformer

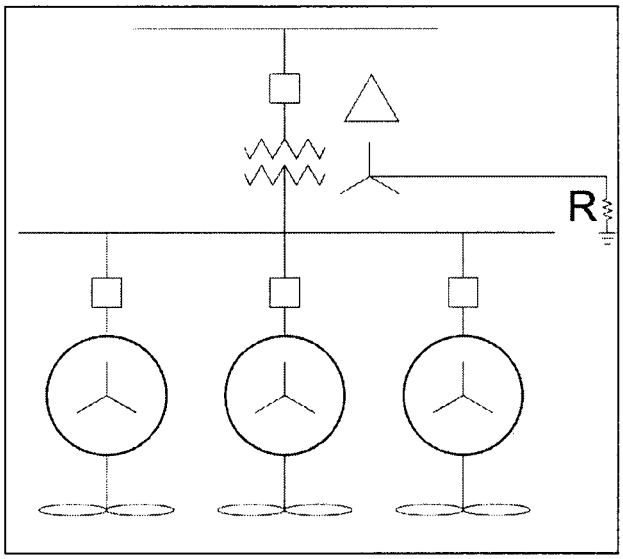


Figure 2. Multiple generators connected to transformer

intermittent or arcing type phase-to-ground faults, due to the capacitive charge build-up in the cables.

MV Electrical Distribution Networks

Wind farm collection networks are simple radial circuits with switching devices for isolation and switching.[1] Balanced 3-phase networks are suitable for connecting large wind generators. The secondary of the generator step-up transformer can be Y- or Delta-connected. In Y-connected transformers the neutral point is directly accessible and hence can be easily grounded. In Delta-connected transformers an accessible neutral point is created by using a grounding transformer as shown in figure 4. The usual practice is to ground the neutral point at one location only.

Electrical Protection

With high-resistance grounding of the generator step-up transformer, fast acting ground-fault relays can be applied in the generator circuit. Low-resistance grounding by neutral grounding resistors or artificial neutrals is suggested for the MV network. The fault currents in the MV collection networks can be small due to high source impedance and long lengths of cables. In some cases, fuses cannot be relied upon to quickly clear the fault; hence, ground-fault relays and circuit breakers are required. It is important to isolate the faulted section quickly. Correct discrimination is obtained by the application of ground-fault relays.

Additional Electrical Protection

California reports 35 turbine generated fires per year due to short circuiting and lightning. A single turbine may contain up to 200 gallons of oil; the transformer at the base of each turbine may contain another 500 gallons of oil. In rural areas even a spark can easily develop into a large fire before discovery is made and fire-fighting can begin. [5] These fires may be avoided and save millions of dollars in damage by placing arc flash mitigation relays in the switchgear in the nacelle. On the occurrence of an arc, the turbine can immediately switch off-line and reduce damage, protecting the personnel, equipment, and the environment.

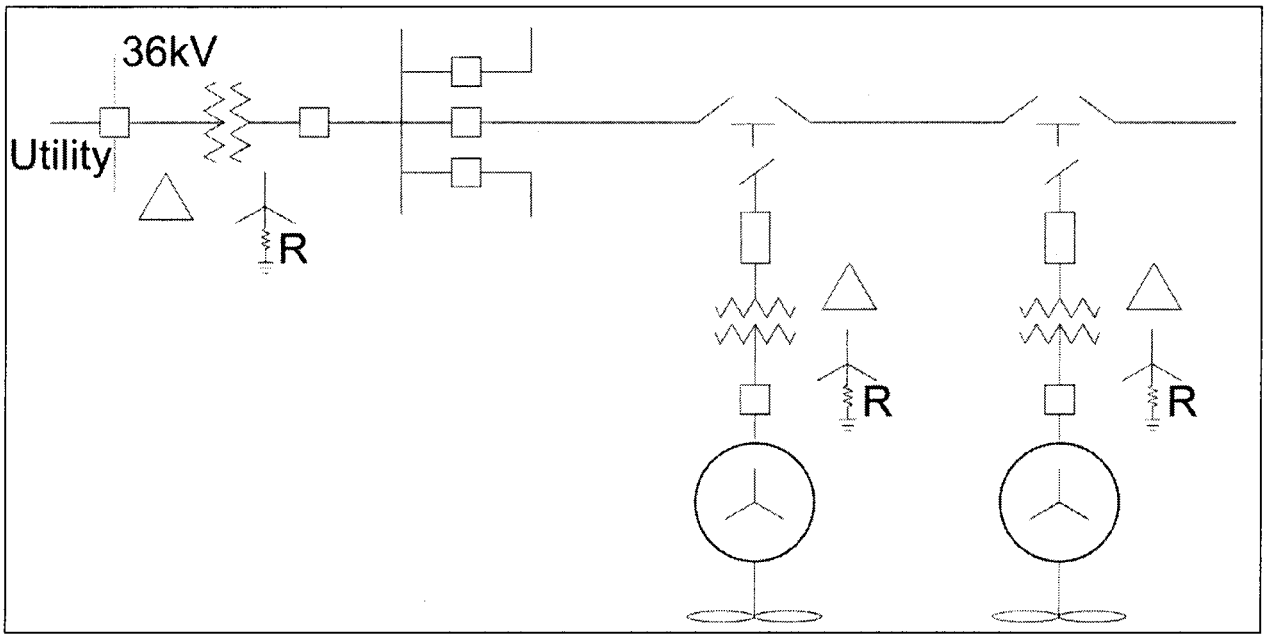


Figure 3. MV Collection Network

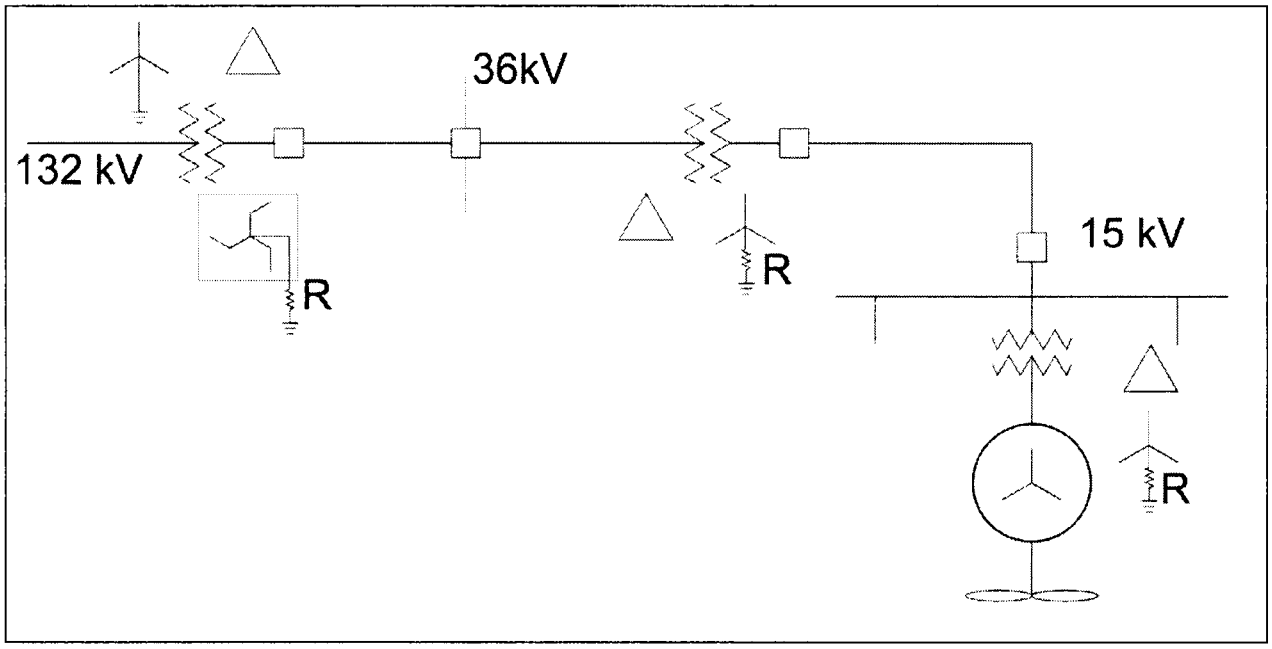


Figure 4. MV collection network with artificial neutral

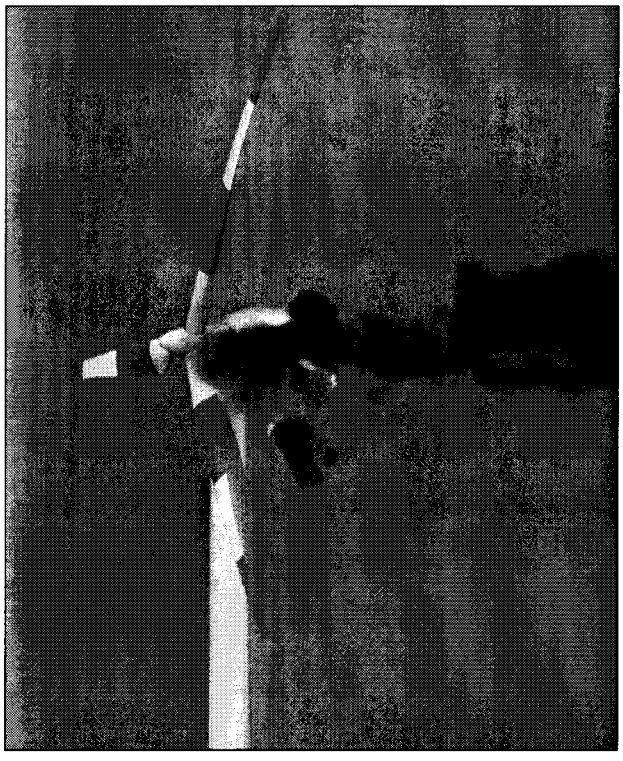


Figure 5. Turbine fire

Conclusion

Ungrounded delta systems have many operating disadvantages, including high transient overvoltages and difficulty in locating faults. Solidly grounded neutral systems limit the system potential to ground, and speed the detection and location of ground faults. However, the system must be shut down after the first ground fault and there is a potential for extensive arcing fault damage. Applying coordinated ground-fault protection is very difficult and almost impossible with multiple generators.

Low-resistance grounded neutral systems limit the magnitude of the ground-fault current so that serious damage does not occur. The system must still be shut down after the first ground fault. This level of resistance grounding is generally used on medium- and high-voltage systems, above 6.9 kV.

If the power system is changed to high-resistance grounding then the ground-fault current can be reduced to 10 A or less, which has significant impact on reducing the equipment damage. In addition, it ensures that the wind power system continues to operate and does not suffer trip-out of a faulted generator.

References

[1] Burton,T., and D. Sharpe, N. Jenkins, and E. Bossanyi, *Handbook of Wind Energy.* John Wiley and Sons.

[2] Rodrigues-Amenedo, J. L., S. Arnalte, and J. C. Burgos, "Automatic Generation Control of a Wind Farm with Variable Speed Wind Turbines." *IEEE Transactions On Energy Conversion,* Vol 17, No. 2, (June 2002).

[3] Mullan, A., G. Lightbody, and R. Yacamini. "Wind Turbine Fault Ride through Enhancement." *IEEE Transactions On Power Systems,* Vol. 20, No. 4, (November 2005).

[4] IEEE Standard 142-1991: *IEEE Recommended Practice for Grounding Industrial and Commercial Power Systems.*

[5] http://www.keepersoftheblueridge.com/gallery.html

[6] http://www.moorsydeactiongroup.org.uk/safety.html

Sergio Panetta is vice president of engineering with I-Gard Corporation in Mississauga, Ontario. He holds a master's degree in electri-

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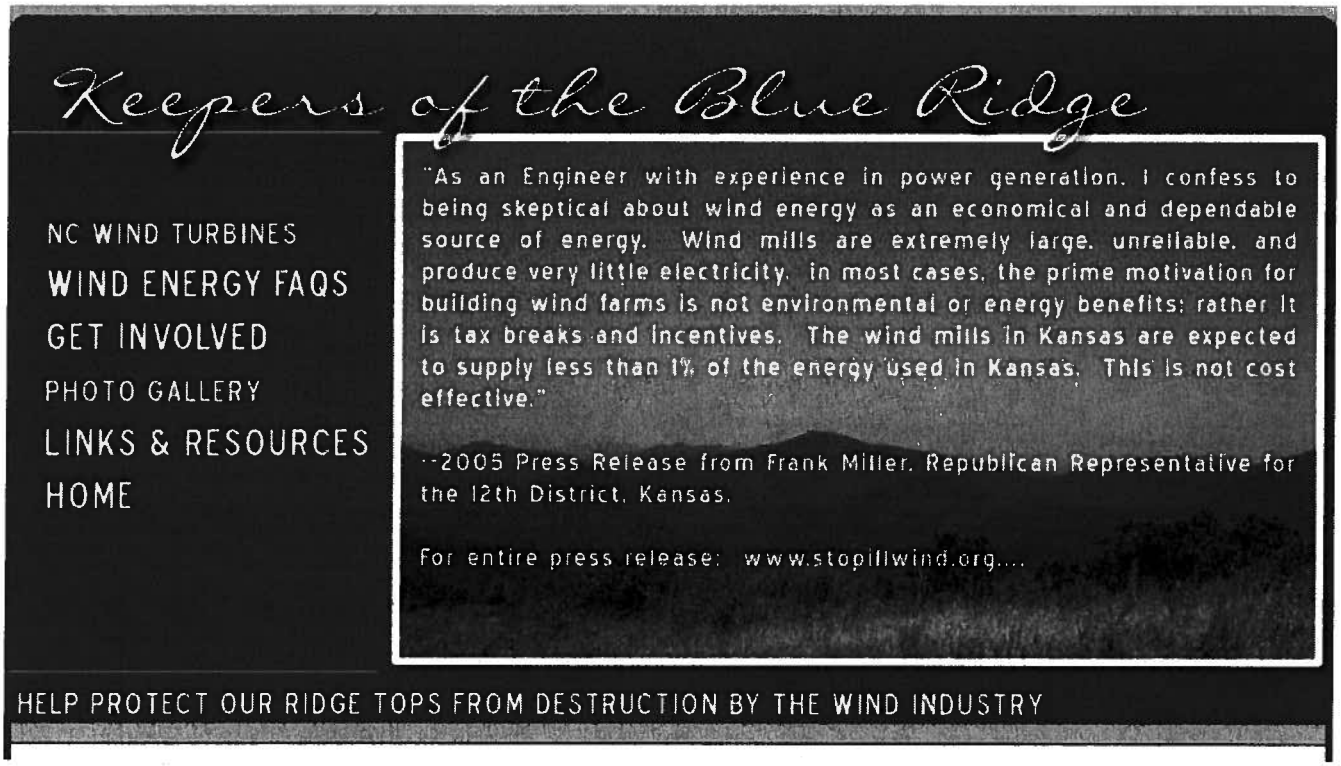
Exhibit B

Keepers of the Blue Ridge website (September 1, 2010).



Failed Technology **Inefficient & Unrealiable** **Winners & Losers** **Collateral Damage** **Noise, Fire & Health Hazards**

Wind Energy is a Failed Technology – evidence from around the world

- Germany (size of Montana) is the world's largest user of wind technology. Over the last 20 years, Germany has erected 18,000 wind turbines that have only been able to generate 6% of the country's total electricity supply.
- In Feb. 2005, the German Government's energy agency released a report that concluded that wind plants were an expensive and inefficient way of generating sustainable energy and also had serious environmental effects.
- This same report suggested reduction of greenhouse gases could be more effectively and cheaply reduced by simply installing filters on existing fossil-fuel plants.
- Denmark has 6000 wind turbines; in 2003 that country's greenhouse gas emissions increased 7.3% over 2002 levels.
- Despite being blanketed with wind turbines, Denmark has not been able to shut down one single conventional power plant.
- Development of onshore wind plants in Denmark has effectively stopped. The Government has cancelled plans for three offshore wind plants for 2008 and has scheduled the withdrawal of subsidies for existing sites.
- The California Energy Commission reported that the state's 14,000 turbines produced half of one percent of their electricity in 2002. Extrapolating this record to the U.S. as a whole, it would take over 100,000 wind turbines spread over 10 million acres of land (costing $150-300 billion) to produce 5% of the country's electricity.
- Kansas politician Frank Miller was quoted in a press release stating wind plants in Kansas were only expected to supply 1% of the energy used in the state.
- The Wind Industry is meeting much public resistance in Europe, especially in Germany and Denmark , the inefficiency has become apparent and people are angry at the cost of wasted resources. The industry is searching for a bigger market in the U.S. to replace lost sales in Europe .

Wind Energy – Inefficient and Unreliable

- Because of its inherent technical limitations and the fluctuating nature of its power source, no other type of industrial power generation has such poor performance.
- Wind Developers often dwell on wind turbines' *installed capacity* ; they provide facts and figures based on what the turbines can produce at 100% capacity.
- Because of the fluctuating nature of wind, the amount of energy produced by wind plants is expressed as an average annual output called *capacity factor.* Research proves that average annual capacity for wind plants is only 15-30% of their installed capacity.
- Due to the intermittency of wind power, all wind turbine plants must have stand-by generators that are powered by fossil fuels. These backup generators must idle 24 hrs a day (emitting considerable amounts of greenhouse gases for nothing) in order to be ready to generate electricity when the wind turbines aren't functioning – wind energy is not clean.
- In a 2003 study, the California Energy Commission studied 3 wind plants and estimated that they had an average capacity credit of 23.9%. The estimated capacity credit for wind energy in the state will be 5%.
- Evidence available from California , Texas , and Ontario suggests that many wind facilities sited on land will achieve capacity credits averaging only in the single digit range.
- A study in Germany proved that for more than half the days in 2004, the sum of wind plant output to the grid was lower than 11% of its capacity.
- In the U.K. 1,010 wind turbines produced 0.1% of their electricity in 2002.
- It would take over 2000 large wind turbines (with a generous capacity factor of 30%) spread over hundreds of miles to equal the power of one 1600 MW conventional power plant situated on a few acres.
- Wind turbines produce electricity only when the wind is blowing within the right speed range. They don't produce power until wind speed reaches 8 mph; reach rated capacity around 33 mph, and shut down at 55 mph because of possible damage to the blades. Their output is intermittent, volatile, and unpredictable.
- This unpredictability causes "grid instability". Electricity grids must be kept in balance (supply & demand, voltage, frequency) which is why wind power must have back up generators to ramp up and down to balance the unreliable output from wind turbines.
- Many Japanese utilities severely limit the amount of wind generated power they buy because of the grid instability they cause.
- For the same reason, in Dec. 2003, Ireland halted all new wind power connections to the national grid and have plans to end state supported subsidies.
- In 2005, Spanish utilities began refusing new wind power connections and in 2006 Spain ended all subsidies.
- In 2004, Australia reduced the amount of wind power that utilities are required to buy bringing wind projects to an almost stand still.
- Switzerland is also cutting subsidies as too expensive for the lack of significant benefit from wind power.
- It must also be noted that months of peak demand for electricity (summer months) coincide with months of low or no wind.

The Winners & The Losers – huge tax breaks for the Wind Industry while the taxpayers and electric customers pick up the tab.

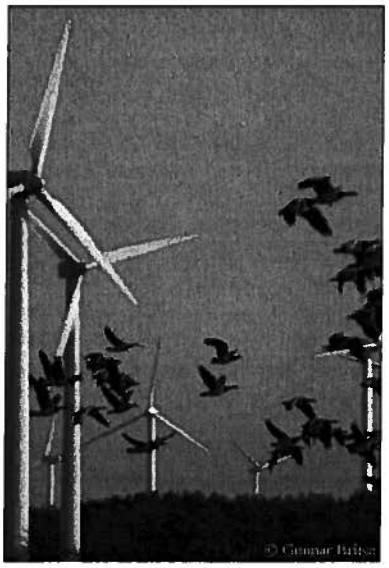
- On a per kilowatt basis, no other form of industrial energy has recently received higher public subsidy than wind.
- Wind plants are now being built primarily for tax avoidance purposes, not because of their environmental, energy, or economic benefits.
- The tax breaks and subsidies have more value to wind plant owners than the revenue from the sale of the small amount of electricity they produce.
- The big winners are the Wind Industry, the Wind Developer, and a few landowners who lease their land. Electric customers and taxpayers are the big losers.
- Many states have approved Renewable Portfolio standards (RPS) that force utility companies to purchase electricity from wind plants at extremely high prices – this cost is passed on to the consumer.
- Publicly funded tax schemes (production tax credits and double-declining depreciation) reimburse as much as 75% of the wind plant owner's capital cost for each of the $1.65 million wind turbines. You, the taxpayer, are practically paying for the wind plants and will also be paying higher prices for the expensive, small amount of electricity wind turbines produce.
- According to Citizens for Tax Justice, Florida Power and Light Group, (FLP) (largest owner of wind capacity in the U.S.) paid **NO** federal income taxes in 2002 and 2003 while reporting net income of more than $2 billion. Those were the years that FLP invested heavily in wind plants. They took more than $1.2 billion in depreciation in those years.
- The Wind Industry has powerful lobbyists in Washington , D.C. placing intense pressure on our politicians. In the not so distant future, if the Wind Industry and Wind Developers are successful, hundreds of thousands of massive turbines will dominate our landscapes while doing virtually nothing to solve the problems of fossil fuel dependency. Subsidies given to industrial wind technology diverts money that could be used in research for other more reliable forms of alternative energy.
- Despite the facts, its unclear if legislators, local government officials, and regulators will temper enthusiasm for wind energy, since so many have accepted the false claims and inaccurate information distributed by the wind industry and advocates. Also, they are well aware of wind industry lobbying power and campaign contributions.
- Wind Developers claim that they increase the local tax base. Research proves those gains are more than offset by the loss of open land, loss of tourism, the decrease in property values, and the taxes and fees consumers must pay to subsidize the industry.
- A survey of property assessors in the UK found that a nearby wind facility lowers property values by up to 15% per year for 2 years.
- In the discussion of property values, it must be remembered that in most places values increase steadily. So any slowing down of that normal rise because of wind power facilities is in fact a loss of value.
- The Wind Industry also claims to create many jobs - a typical wind plant requires one low paid maintenance worker.

Collateral Damage – wind energy is NO FRIEND to the environment

- Ordinary citizens are beginning to realize that wind plants are not environmentally benign. Instead, wind energy has high economic, environmental, ecological, scenic and property value costs.
- Wind plants cause considerable environmental damage to the surrounding countryside. Each wind turbine requires the clear-cutting of at least 4 - 6 acres and another 35 - 75 acres for infrastructure support, i.e. access roads, tensions lines, substations, pool-size irremovable concrete bases, etc.
- Often it is necessary to blast through bedrock, potentially disrupting water flow to existing wells downhill.

- Adverse impacts include erosion, destruction of wildlife habitat, interference with bird migration paths, massive bird kills, destruction of scenic vistas, noise, lowering of property values, distracting blade flicker and aircraft warning lights.

- We must take into consideration the greenhouse gases that are produced by the construction and installation of wind plants: the manufacture of steel, the concrete bases, asphalt for roads, the fuel burned by earth-moving equipment, production of tension lines, pylons, substations, and back-up generators – all for a technology that performs at 15 -30% capacity. It's clear that no real savings will be achieved in greenhouse gas emissions.
- At the Buffalo Mountain wind plant in Tennessee , each turbine foundation is 30 ft deep and contains approx. 3,500 cubic yards of concrete. Concrete production is one of the biggest sources of CO2 emissions.
- It has been estimated that a wind plant must be in production for seven years to offset the carbon emissions created in the manufacture of just the concrete needed for their placement.
- A wind plant stands to be seen from at least 20 miles around, meaning it has the potential of degrading the scenery of 1,256 square miles. Western N.C. economies are dependent on the vacation home business and tourists that are attracted to the area for its scenic views, and natural undisturbed environment.



- Then there is the bird problem. The California Energy Commission reported that in 1989 the wind turbines in Altamont Pass killed 60 golden eagles and 300 redtail hawks, not to mention smaller birds.
- Norway researchers Winkleman and Karlsson counted 49 birds killed by a single turbine during one night of migration.
- The U.S Fish and Wildlife Services estimate that European wind power kills 37 birds per turbine per year. Extrapolating that figure to 50 turbines equals the potential for a small wind plant to kill almost 20,000 birds over a 10 year period.
- At least 2000 bats were killed on Backbone Mountain in West Virginia in just 2 months during their 2003 fall migration.
- A 2002 study in Spain estimated that 11,200 birds of prey, 350,000 bats, and 3,000,000 small birds are killed each year by wind turbines and their power lines.

Enter at Your Own Risk - Noise, Fire, and Health Hazards

- The Wind Industry typically plays down the noise problem but it is widely known that in the leases between land owners and developers there is a "noise easement" to protect the wind company from liability. Any complaints or lawsuits would be against the land owner.

- The noise problem is well documented – in Oct. 2005, Germany hosted the First International Conference on Wind Turbine Noise and discussed perspectives for noise control.
- The European Union published results of a 5 year investigation into wind power and found noise complaints to be valid, and that noise levels could not be predicted before developing a site.
- A Meyersdale, Pa resident, Bob Laravee, who lives 3000 ft. from a wind plant, documented noise levels over a 48 hr. period. The results showed an average reading of 75 decibels. According to the EPA, 45 decibels disturb sleep.
- It is difficult to predict noise levels in mountainous terrain. Only a "swishing" may be heard directly underneath a turbine, but farther away the resulting sound of several turbines together has been described to be as loud as a motorcycle or a jet engine.
- In March 2006, Dr Nina Pierpont testified before the N.Y. State Legislature Committee about "Wind Turbine Syndrome" which affects many people living in the vicinity of wind turbines, This syndrome includes chronic sleep problems, severe headaches, dizziness, concentration problems, inner ear problems, etc. People with a history of car sickness, migraines, and inner ear problems are more susceptible.
- Dr. Pierpont also reported that some people feel disturbing pulsations in their chests and ears even when they can't see or hear the wind turbines. Sensitivity to low frequency vibration is highly variable in people and poorly understood. The strobe effect of turbines can also provoke seizures in people with epilepsy.
- An interesting note – the Nazis used low-frequency noise as a form of torture.

- Wind turbines are subject to metal fatigue and the effects of ice and wind, parts and whole blades have torn off because of malfunction, flying as far as 8 kilometers and through the window of a home in one case. Whole towers have collapsed in Germany (as recently as 2002) and the U.S. (e.g. Oklahoma, May 2005).
- California reports 35 turbine generated fires per year due to short circuiting and lightning. A single turbine may contain up to 200 gallons of oil; the transformer at the base of each turbine may contain another 500 gallons of oil. In rural areas even a spark can easily develop into a large fire before discovery is made and fire fighting can begin.

- There are currently many lawsuits around the world due to wind plant noise, lowered property values, and negative health effects. Communities are angry at being forced to become live-in power plants.

Should we sacrifice a North Carolina Treasure for an expensive, inefficient, and insignificant contribution to an ill conceived attempt to solve a global problem?

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Exhibit C

Keepers of the Blue Ridge website (October 15, 2010).

Failed Technology | Inefficient & Unrealiable | Winners & Losers | Collateral Damage | Noise, Fire & Health Hazards

Wind Energy is a Failed Technology - evidence from around the world

- Germany (size of Montana) is the world's largest user of wind technology. Over the last 20 years, Germany has erected 18,000 wind turbines that have only been able to generate 6% of the country's total electricity supply.
- In Feb. 2005, the German Government's energy agency released a report that concluded that wind plants were an expensive and inefficient way of generating sustainable energy and also had serious environmental effects.
- This same report suggested reduction of greenhouse gases could be more effectively and cheaply reduced by simply installing filters on existing fossil-fuel plants.
- Denmark has 6000 wind turbines; in 2003 that country's greenhouse gas emissions increased 7.3% over 2002 levels.
- Despite being blanketed with wind turbines, Denmark has not been able to shut down one single conventional power plant.
- Development of onshore wind plants in Denmark has effectively stopped. The Government has cancelled plans for three offshore wind plants for 2008 and has scheduled the withdrawal of subsidies for existing sites.
- The California Energy Commission reported that the state's 14,000 turbines produced half of one percent of their electricity in 2002. Extrapolating this record to the U.S. as a whole, it would take over 100,000 wind turbines spread over 10 million acres of land (costing $150-300 billion) to produce 5% of the country's electricity.

- Kansas politician Frank Miller was quoted in a press release stating wind plants in Kansas were only expected to supply 1% of the energy used in the state.
- The Wind Industry is meeting much public resistance in Europe, especially in Germany and Denmark , the inefficiency has become apparent and people are angry at the cost of wasted resources. The industry is searching for a bigger market in the U.S. to replace lost sales in Europe .

Wind Energy - Inefficient and Unreliable

- Because of its inherent technical limitations and the fluctuating nature of its power source, no other type of industrial power generation has such poor performance.
- Wind Developers often dwell on wind turbines' *installed capacity* ; they provide facts and figures based on what the turbines can produce at 100% capacity.
- Because of the fluctuating nature of wind, the amount of energy produced by wind plants is expressed as an average annual output called *capacity factor.* Research proves that average annual capacity for wind plants is only 15-30% of their installed capacity.
- Because wind is an intermittent power source, the energy output is highly variable and rarely correlates with demand; other sources of energy cannot be taken off line. Because of its intermittent, unreliable nature, wind energy is more difficult to manage and more costly - the cost is passed on to the consumer.
- The use of wind power will not shut down coal plants. With the extra burden of balancing the wind energy, other energy sources may even use more fuel (just as cars use more gas in stop and go traffic than in more steady highway driving).
- In a 2003 study, the California Energy Commission studied 3 wind plants and estimated that they had an average capacity credit of 23.9%. The estimated capacity credit for wind energy in the state will be 5%.
- Evidence available from California , Texas , and Ontario suggests that many wind facilities sited on land will achieve capacity credits averaging only in the single digit range.
- A study in Germany proved that for more than half the days in 2004, the sum of wind plant output to the grid was lower than 11% of its capacity.
- In the U.K. 1,010 wind turbines produced 0.1% of their electricity in 2002.
- It would take over 2000 large wind turbines (with a generous capacity factor of 30%) spread over hundreds of miles to equal the power of one 1600 MW conventional power plant situated on a few acres.
- Wind turbines produce electricity only when the wind is blowing within the right speed range. They don't produce power until wind speed reaches 8 mph; reach rated capacity around 33 mph, and shut down at 55 mph because of possible damage to the blades. Their output is intermittent, volatile, and unpredictable.
- This unpredictability causes "grid instability". Electricity grids must be kept in balance (supply & demand, voltage, frequency) which is why wind power must have back up generators to ramp up and down to balance the unreliable output from wind turbines.
- Many Japanese utilities severely limit the amount of wind generated power they buy because of the grid instability they cause.
- For the same reason, in Dec. 2003, Ireland halted all new wind power connections to the national grid and have plans to end state supported subsidies.

- In 2005, Spanish utilities began refusing new wind power connections and in 2006 Spain ended all subsidies.
- In 2004, Australia reduced the amount of wind power that utilities are required to buy bringing wind projects to an almost stand still.
- Switzerland is also cutting subsidies as too expensive for the lack of significant benefit from wind power.
- It must also be noted that months of peak demand for electricity (summer months) coincide with months of low or no wind.

The Winners & The Losers - huge tax breaks for the Wind Industry while the taxpayers and electric customers pick up the tab.

- On a per kilowatt basis, no other form of industrial energy has recently received higher public subsidy than wind.
- Wind plants are now being built primarily for tax avoidance purposes, not because of their environmental, energy, or economic benefits.
- The tax breaks and subsidies have more value to wind plant owners than the revenue from the sale of the small amount of electricity they produce.
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- In the discussion of property values, it must be remembered that in most places values increase steadily. So any slowing down of that normal rise because of wind power facilities is in fact a loss of value.
- The wind industry claims to create many jobs - in reality very few permanent local jobs are created. Most of the jobs are temporary and are imported by the wind developer.

Collateral Damage - wind energy is NO FRIEND to the environment

- Ordinary citizens are beginning to realize that wind plants are not environmentally benign. Instead, wind energy has high economic, environmental, ecological, scenic and property value costs.
- Commercial wind projects cause considerable collateral damage. A single turbine requires clear cutting 3-5 acres to provide room for construction and to reduce wind turbulence during operation. Loss of interior forest habitat is even greater, 15-20 acres per turbine. Interior forest, defined as forest habitat that is more than 100 meters from a clearing, is essential for maintaining viable populations of many birds and wildlife.
- Often it is necessary to blast through bedrock, potentially disrupting water flow to existing wells downhill.
- Adverse impacts include erosion, destruction of wildlife habitat, interference with bird migration paths, massive bird kills, destruction of scenic vistas, noise, lowering of property values, distracting blade flicker and aircraft warning lights.
- A 2007 study from the American National Academies of Science expressed concerns about bird and bat kill, and also stated that wind projects will not significantly reduce emissions.

- We must take into consideration the greenhouse gases that are produced by the construction and installation of wind plants: the manufacture of steel, the concrete bases, asphalt for roads, the fuel burned by earth-moving equipment, production of tension lines, pylons, substations, and back-up generators - all for a technology that performs at 15 -30% capacity.

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- An interesting note - the Nazis used low-frequency noise as a form of torture.

- Wind turbines are subject to metal fatigue and the effects of ice and wind, parts and whole blades have torn off because of malfunction, flying as far as 8 kilometers and through the window of a home in one case. Whole towers have collapsed in Germany (as recently as 2002) and the U.S. (e.g. Oklahoma, May 2005).
- Turbine related fires are not uncommon. A single turbine may contain up to 200 gallons of oil; the transformer at the base of each turbine may contain another 500 gallons of oil. In rural areas even a spark can easily develop into a large fire before discovery is made and fire fighting can begin.

- There are currently many lawsuits around the world due to wind plant noise, lowered property values, and negative health effects. Communities are angry at being forced to become live-in power plants.

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Exhibit D

“All Reported Fires by Property Use - Electric Generating Plant/Energy Production Plant”

California Office of the State Fire Marshal (September 2, 2010).

All Reported Fires by Property Use - Electric Generating Plant/Energy Production Plant

Reported to the California Office of the State Fire Marshal

as of 9/2/10

Incident Date	Fire Department Name	Incident Type	Property Use	Address	Street	City	Zip	Property Loss	Contents Loss	Fire Service Injuries	Fire Service Deaths	Civilian Injuries	Civilian Deaths
02/17/2008	LOS ANGELES COUNTY FD	Fire in portable building, fixed location	Energy production plant, other	1150	SEPULVEDA	CARSON	0	$60,000	$500,000	0	0	0	0
02/20/2008	ALAMEDA COUNTY FD	Passenger vehicle fire	Electric generating plant		DYER RD	LIVERMORE	94550	$20,000	$0	0	0	0	0
02/24/2008	HOLTVILLE FD	Building fires	Electric generating plant	3300	Evan Hewes	Imperial (County)	92250	$0	$5,000	0	0	0	0
03/09/2008	MERCED CFD	Fire, other	Electric generating plant	13072	G	SNELLING	95369	$1,000	$1,000,000	0	0	0	0
04/18/2008	FRESNO COUNTY FPD	Fire, other	Energy production plant, other	2360	ORANGE	FRESNO	93727	$10	$0	0	0	0	0
04/22/2008	COTTONWOOD F P D	Special outside fire, other	Electric generating plant	20811	Industry Rd.	Cottonwood	96022	$0	$0	0	0	0	0
04/22/2008	ANDERSON FPD	Special outside fire, other	Electric generating plant	20811	Industry	Anderson	96007	$0	$0	0	0	0	0
05/03/2008	COTTONWOOD F P D	Special outside fire, other	Electric generating plant	20811	Industry	Cottonwood	96022	$0	$0	0	0	0	0
05/07/2008	KERN CFD	Cultivated vegetation, crop fire, other	Energy production plant, other	31500	POND	KERN COUNTY	93250	$1	$1	0	0	0	0
05/08/2008	COTTONWOOD F P D	Special outside fire, other	Electric generating plant					$0	$0	0	0	0	0
05/09/2008	PALM SPRINGS FD	Special outside fire, other	Energy production plant, other		INDIAN CANYON	Palm Springs	92262	$750,000	$0	0	0	0	0
05/16/2008	OROVILLE FD	Special outside fire, other	Electric generating plant	3155	SOUTH 5TH	Oroville	95966	$0	$0	0	0	0	0
05/17/2008	AUBURN VFD	Grass fire	Energy production plant, other	100	Hidden Creek	Auburn	95603	$0	$0	0	0	0	0
05/24/2008	STOCKTON FD	Fuel burner/boiler malfunction, fire confined	Electric generating plant	2526	WASHINGTON	STOCKTON	95203	$0	$0	0	0	0	0
05/28/2008	LOS ANGELES COUNTY FD	Fires in structures other than in a building	Energy production plant, other	8835	SOMERSET	PARAMOUNT	0	$0	$0	0	0	0	0
05/31/2008	COTTONWOOD F P D	Special outside fire, other	Electric generating plant	20811	Industry	Cottonwood	96022	$0	$0	0	0	0	0
05/31/2008	ANDERSON FPD	Outside storage fire	Energy production plant, other	20811	Industry	Anderson	96007	$0	$0	0	0	0	0
06/07/2008	OROVILLE FD	Cultivated grain or crop fire	Energy production plant, other	3050	SOUTH 5TH	Oroville	95965	$10,000	$0	0	0	0	0
06/10/2008	ANDERSON FPD	Outside storage fire	Energy production plant, other		Wheelabrator	Anderson	96007	$0	$0	0	0	0	0
06/13/2008	SUTTER CREEK FPD	Natural vegetation fire, other	Electric generating plant	49	Highway	Jackson	95642	$0	$0	0	0	0	0
06/22/2008	COTTONWOOD F P D	Outside rubbish, trash or waste fire	Electric generating plant	20811	Industry	Cottonwood	96022	$0	$0	0	0	0	0
06/23/2008	SAN DIEGO FIRE & RESCUE	Building fires	Electric generating plant	9060	Friars	SAN DIEGO	92108	$1,000	$0	0	0	0	0
06/23/2008	CDF-SAN BERNARDINO	Brush, or brush and grass mixture fire	Electric generating plant	6655	Escondido	Hesperia	92345	$0	$0	0	0	0	0
06/23/2008	SAN BERNANDINO COUNTY FD	Natural vegetation fire, other	Energy production plant, other	6655	ESCONDIDO	HES	92345	$0	$0	0	0	0	0
07/03/2008	CDF-TUOLUMNE	Grass fire	Energy production plant, other		Hwy 108	JAMESTOWN	95370	$0	$0	0	0	0	0
07/17/2008	KERN CFD	Building fires	Electric generating plant		LERA	KERN COUNTY	93501	$3,000	$1,000	0	0	0	0
07/18/2008	CDF-CONTRA COSTA	Grass fire	Energy production plant, other		Vasco	LOS_VAQUEROS_RESER	94551	$0	$0	0	0	0	0
07/19/2008	KERN CFD	Outside equipment fire	Energy production plant, other	19358	JAMISON	TEHACHAPI	93561	$200,000	$0	0	0	0	0
07/29/2008	SONORA FD	Building fires	Electric generating plant	14560	Tuolumne	Sonora	95370	$0	$0	0	0	0	0
07/29/2008	SANTA MONICA FD	Outside equipment fire	Energy production plant, other	1721	22ND ST	SANTA MONICA	90404	$10,000	$0	0	0	0	0
08/04/2008	RIVERSIDE CFD	Special outside fire, other	Electric generating plant		Garnet	North Palm Springs	92258	$12,000	$0	0	0	0	0
08/04/2008	RIVERSIDE CFD	Special outside fire, other	Electric generating plant		Garnet	North Palm Springs	92258	$12,000	$0	0	0	0	0
08/04/2008	KERN CFD	Outside equipment fire	Electric generating plant	26255	33	KERN COUNTY	93224	$750,000	$0	0	0	0	0
08/15/2008	ALAMEDA COUNTY FD	Passenger vehicle fire	Electric generating plant	11700	FLYNN	LIVERMORE	94550	$4,000	$0	0	0	0	0
08/18/2008	CDF-SHASTA	Building fires	Electric generating plant	16349	Shasta Dam	SHASTALKCTY	96089	$0	$0	0	0	0	0
08/20/2008	TORRANCE FD	Special outside fire, other	Energy production plant, other	3700	190th	TORRANCE	90504	$0	$0	0	0	0	0
08/26/2008	CDF-TUOLUMNE	Fire, other	Energy production plant, other	8755	Enterprise Dr.	TUOLUMNE_COUNTY	95309	$0	$0	0	0	0	0
08/27/2008	CDF-ALAMEDA	Grass fire	Energy production plant, other	3200	2800 DYER	ALTAMONT	94551	$0	$0	0	0	0	0
08/28/2008	ALAMEDA COUNTY FD	Grass fire	Electric generating plant		MOUNTAIN HOUSE RD	LIVERMORE	94550	$0	$0	0	0	0	0
08/29/2008	TORRANCE FD	Mobile property (vehicle) fire, other	Energy production plant, other	3700	190th	TORRANCE	90504	$1,000	$0	0	0	0	0
09/02/2008	STOCKTON FD	Building fires	Energy production plant, other	2526	WASHINGTON	STOCKTON	95203	$10,000	$0	1	0	0	0
09/22/2008	PALO ALTO FD	Trash or rubbish fire, contained	Energy production plant, other	2575	SAND HILL	Stanford	94305	$0	$0	0	0	0	0
09/22/2008	DIXON FD	Grass fire	Electric generating plant	5221	QUINN	VACAVILLE	95688	$0	$0	0	0	0	0
09/24/2008	TORRANCE FD	Outside equipment fire	Energy production plant, other	3700	190TH	TORRANCE	90504	$0	$0	0	0	0	0
10/04/2008	KERN CFD	Mobile property (vehicle) fire, other	Electric generating plant	31500	POND	KERN COUNTY	93250	$500	$0	0	0	0	0
10/08/2008	CHULA VISTA FD	Outside equipment fire	Electric generating plant	990	Bay	CHULA VISTA	91911	$0	$0	0	0	0	0
10/13/2008	SAN FRANCISCO FD	Fires in structures other than in a building	Electric generating plant	25	JUDAH	SF	94143	$2,000	$2,000	0	0	0	0
10/13/2008	VENTURA COUNTY FD	Brush, or brush and grass mixture fire	Energy production plant, other	0	South Mountain	Santa Paula	93060	$0	$0	0	0	0	0
10/28/2008	ORANGE COUNTY FIRE AUTHORITY	Outside equipment fire	Electric generating plant		EDWARDS ST/GARDEN GROVE BL	WESTMINSTER	0	$10,000	$0	0	0	0	0
10/29/2008	TORRANCE FD	Special outside fire, other	Energy production plant, other	3700	190TH	TORRANCE	90504	$0	$0	0	0	0	0
11/25/2008	SANTA BARBARA CFD	Outside equipment fire	Electric generating plant	1833	FLETCHER	SANTA YNEZ	93460	$0	$0	0	0	0	0
12/04/2008	TORRANCE FD	Outside equipment fire	Energy production plant, other	3700	190TH	TORRANCE	90504	$0	$0	0	0	0	0
12/22/2008	KIRKWOOD VFD	Fire, other	Electric generating plant		Power House Road	Kirkwood	95646	$0	$0	0	0	0	0
12/27/2008	TUOLUMNE CFD	Fire in motor home, camper, recreational vehicle	Energy production plant, other		J59	TUOLUMNE_COUNTY	95321	$100	$0	0	0	0	0
01/11/2009	MENIFEE FIRE DEPARTMENT	Special outside fire, other	Electric generating plant	26226	ANTELOPE	ROMO	92585	$0	$0	0	0	0	0
01/18/2009	SANTA MARIA FD	Building fires	Electric generating plant	1400	CHURCH	SANTA MARIA	93454	$0	$100,000	0	0	0	0
01/23/2009	HEMET FD	Outside equipment fire	Electric generating plant		GILBERT	HEMET	92543	$100,000	$0	0	0	0	0
02/06/2009	LONG BEACH FD	Outside rubbish, trash or waste fire	Energy production plant, other	6801	2ND	LONG BEACH	90803	$0	$0	0	0	0	0
02/10/2009	QUINCY FPD	Off-road vehicle or heavy equipment fire	Energy production plant, other		LEE	Quincy	95971	$0	$0	0	0	0	0
02/11/2009	KIRKWOOD VFD	Fire, other	Electric generating plant	1	Power House Rd	Kirkwood	89410	$0	$0	0	0	0	0
02/15/2009	DINUBA FD	Off-road vehicle or heavy equipment fire	Energy production plant, other		ROAD 72	Dinuba	93618	$100,000	$0	0	0	0	0
03/09/2009	SAN LUIS OBISPO CFD	Fire, other	Electric generating plant		Diablo Rd	SLO_CO	93504	$0	$0	0	0	0	0
04/21/2009	COTTONWOOD F P D	Rail vehicle fire	Energy production plant, other		Panorama Point Rd.	Cottonwood	96022	$0	$0	0	0	0	0
04/23/2009	PALO ALTO FD	Dumpster or other outside trash receptacle fire	Electric generating plant	2575	SAND HILL	STANFORD	94305	$0	$0	0	0	0	0
04/24/2009	SAN BERNANDINO COUNTY FD	Outside equipment fire	Electric generating plant	16800	Aster	ADELANTO	92301	$0	$0	0	0	0	0
05/17/2009	PLACER CO FD	Building fires	Energy production plant, other	3195	ATHENS	PCF_PAIGE1	95648	$0	$30,000	0	0	0	0
05/19/2009	CDF-ALAMEDA	Grass fire	Energy production plant, other	3014	Patterson	ALTAMONT	95377	$0	$0	0	0	0	0
05/29/2009	EAST DIABLO FPD	Grass fire	Electric generating plant	3551	Wilbur	Antioch	ANT	$0	$0	0	0	0	0
06/03/2009	LONG BEACH FD	Building fires	Energy production plant, other	6801	2ND	LONG BEACH	90803	$0	$0	0	0	0	0
06/15/2009	CDF-LAKE	Brush, or brush and grass mixture fire	Electric generating plant	10350	SOCRATES MINE	COBB	95426	$0	$0	0	0	0	0
06/23/2009	CDF-MONTEREY	Grass fire	Energy production plant, other	66344	SARGEANT CANYON	SAN_ARDO	93426	$5,000	$0	0	0	0	0
07/14/2009	LONG BEACH FD	Building fires	Electric generating plant	690	STUDEBAKER	LONG BEACH	90803	$500,000	$0	0	0	0	0
07/16/2009	SAN BERNANDINO COUNTY FD	Natural vegetation fire, other	Electric generating plant		GOFFS	ESSEX	92332	$0	$0	0	0	0	0
07/23/2009	TORRANCE FD	Special outside fire, other	Energy production plant, other	3700	190TH	TORRANCE	90504	$0	$0	0	0	0	0
07/26/2009	ALAMEDA COUNTY FD	Grass fire	Electric generating plant	10619	ALTAMONT PASS	LIVERMORE	94550	$0	$0	0	0	0	0

All Reported Fires by Property Use - Electric Generating Plant/Energy Production Plant

Reported to the California Office of the State Fire Marshal

as of 9/2/10

Incident Date	Fire Department Name	Incident Type	Property Use	Address	Street	City	Zip	Property Loss	Contents Loss	Fire Service Injuries	Fire Service Deaths	Civilian Injuries	Civilian Deaths
08/03/2009	TORRANCE FD	Outside equipment fire	Energy production plant, other	3700	190TH	TORRANCE	90504	$0	$0	0	0	0	0
08/17/2009	SAN DIEGO FIRE & RESCUE	Building fires	Energy production plant, other	2200	Pacific Hy	SAN DIEGO	92101	$10,000	$50,000	0	0	0	0
09/10/2009	SAN LUIS OBISPO CFD	Building fires	Energy production plant, other		Diablo Power Plant	SLO_CO	93405	$0	$0	0	0	0	0
09/12/2009	EAST DIABLO FPD	Grass fire	Electric generating plant	5280	Bruns	None - NAME?	OOC	$0	$0	0	0	0	0
09/28/2009	CDF-ALAMEDA	Grass fire	Energy production plant, other		Altamont	ALTAMONT	94550	$400	$400	0	0	0	0
10/28/2009	CDF-RIVERSIDE	Outside equipment fire	Electric generating plant	11001	WHITEWATER CANYON	WHIT	92282	$0	$30	0	0	0	0
11/05/2009	CHESTER FPD	Building fires	Electric generating plant	500	Main	Chester	96020	$0	$0	0	0	0	0
11/11/2009	FRESNO COUNTY FPD	Outside equipment fire	Electric generating plant	39550	BUTTE	HURON	93234	$15,000	$30,000	0	0	0	0
12/02/2009	KERN CFD	Outside rubbish, trash or waste fire	Electric generating plant		WILSON	KERN COUNTY	93307	$1	$1	0	0	0	0
01/16/2010	MERCED CFD	Fire, other	Energy production plant, other	30	SANDY MUSH	EL_NIDO	95317	$60,000	$60,000	0	0	0	0
02/03/2010	SANTA BARBARA CFD	Outside equipment fire	Energy production plant, other	12100	Calle Real	GOLETA	93117	$0	$0	0	0	0	0
03/08/2010	REDLANDS FD	Outside equipment fire	Electric generating plant	2492	San Bernardino	REDLANDS	92408	$15,000	$0	0	0	0	0
03/29/2010	COTTONWOOD F P D	Fire in portable building, fixed location	Energy production plant, other	20811	Industry	Cottonwood	96022	$0	$0	0	0	0	0
04/05/2010	LOS ANGELES CITY FD	Fuel burner/boiler malfunction, fire confined	Electric generating plant	12700	VISTA DEL MAR	LOS ANGELES	90045	$0	$0	0	0	0	0
04/12/2010	FRESNO COUNTY FPD	Fire, other	Electric generating plant	18015	Friant	FRIANT	93626	$30,000	$0	0	0	0	0
04/24/2010	BLUE LAKE VFD	Fire, other	Energy production plant, other	200	Taylor	Blue Lake	95525	$0	$0	0	0	0	0
05/15/2010	SHASTA CFD	Fire, other	Electric generating plant	41402	HWY 299	CASSEL	96018	$1,000,000	$0	0	0	0	0
06/16/2010	KIRKWOOD VFD	Fire, other	Electric generating plant	1	Powerhouse	Kirkwood1	95646	$0	$0	0	0	0	0
07/29/2010	CDF-ALAMEDA	Grass fire	Electric generating plant	12598	Flynn	Livermore	94550	$0	$0	0	0	0	0
08/23/2010	CDF-SAN JOAQUIN	Grass fire	Electric generating plant	14680	Patterson Pass	Tracy	95377	$4,500	$0	0	0	0	0
08/25/2010	CDF-ALAMEDA	Grass fire	Energy production plant, other	11700	Flynn	ALTAMONT	94550	$300	$0	0	0	0	0

The data contained in this report provided by the California Office of the State Fire Marshal (OSFM) is from the California All Incident Reporting System (CAIRS) database. Property and contents loss figures, if included, are estimates only. These emergency incident statistics, including injury and death counts, are based only upon information submitted to the OSFM by participating California fire departments. Please note that apparent variations in incident counts and associated losses shown in this report may be solely due to fluctuation in the amount of data submitted to the OSFM. Incoming data is validated according to logical data rules, however, individual data elements are not always verified for accuracy.

Exhibit E

Select Incident Reports from Alameda, Kern, and Riverside Counties, 2008 – 2010

California Office of the State Fire Marshal (September 2, 2010)

Exhibit E.1: Four Confirmed Turbine Fires, 2008 – 2010 (only three incident reports attached)

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002769	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
2 - Intersection		North	INDIAN CANYON	Drive	

Apt./Suite/Room	City	State	Zip Code
	Palm Springs	CA	92262

Census Tract: 570201

Cross street or directions, as applicable: INTERSTATE 10

C Incident Type

160 - Special outside fi

D Aid Given or Received

Their FDID	Their State	Their Incident Number

N - None

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	05/09/2008			05:54:58		
Arrival	05/09/2008			06:01:51		
Controlled						
Last Unit Cleared	05/09/2008			07:05:39		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
B	0	443

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

10 - Fire, other

G1 Resources

Y Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	1	3
EMS	0	0
Other	0	0

N Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 750000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$
Contents	$

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002769	0

B Property Details

B1 — 0 — Y — Not Residential
Estimated number of residential living units in building of origin

B2 — 0
Number of buildings involved

B3 — 0
Acres burned (outside fires)

C On-Site Materials or Products

On-site materials: 712 - Electronic: parts, supplies, equipment

On-site materials use: N - None

D Ignition

D1 — 60 - Equipment or service ar
Area of fire origin

D2 — 10 - Heat from powered equip
Heat source

D3 — UU - Undetermined
Item first ignited

D4
Type of material first ignited

Confined to object of origin

E1 Cause of Ignition

3 - Failure of equipment or heat
Cause of ignition

E2 Factors Contributing To Ignition

20 - Mechanical failure, malfunction, other
Factors contributing to ignition

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved

Gender of person involved

F1 Equipment Involved In Ignition

Equipment Involved

Brand

Model

Serial #

Year

F2 Equipment Power

Equipment power source

F3 Equipment Portability

Equipment portability

G Fire Suppression Factors

Fire suppression factors

H1 Mobile Property Involved

Mobile property involved

H2 Mobile Property Type & Make

Mobile property type

Mobile property make

Mobile property model

Year

License plate number

State

VIN number

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002769	0

NFIRS Remarks

Remarks

Windmill fire. ME443 responded to windmill fire. Upon our arrival we found one windmill with the generator housing fully involved in fire at the top of the windmill approximately 200 feet high. Half of the housing was had already burned away and was dropping debris throughout the desert causing spot fires. I made contact with a windmill employee and he advised housing was already lost. I asked him if the unit was energized and what was the possibility of the blade dropping off was. He advised me that the unit still may be energized and their was a very good chance the blade may fall off. Due to these conditions it was determined that it was not safe to try any type of direct attack on the fire. We had sustained wind of 50 MPH with gust of 63 MPH which was assisting in extinguishing the windmill fire. We repositioned up wind and attacked the spot fires with hand tools; Eng Duenas was assigned as a safety officer/lookout due to the debris falling. We were able to safely extinguish the spot fires and observed the windmill fire until we no longer could see any active fire.. We did not observe any more debris falling or any other spot fires. I contacted a Rick Kolitz a supervisor with AES the operators of the windmill farm. He advised me that the probable cause of the fire was to an overheated generator and the cost of the windmill is $750,000.00. Kolitz told me that they were going to have their personnel monitored the windmill and would call back if they needed further assistance. We cleared the scene, no further assistance requested at this time. ---------- ---------- On 05/09/2008 at 05:54:58 dispatched To N INDIAN CANYON DR & INTERSTATE 10 /Palm Springs, CA 92262. The location is a Energy production plant, Other. The incident was determined to be a(n) Special outside fire, Other. 06:01:51 arrived on scene. The following actions were performed on scene: Fire control or extinguishment, other Units responding were: Unit E-443 responded. 07:05:39 all units back in service.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
00392	Richard Barrena	CP		05/10/2008

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
00392	Richard Barrena	CP		05/10/2008

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002769	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: E-443 Type: 11	Dispatch: 05/09/2008 05:56 Arrival: 05/09/2008 06:01 Clear: 05/09/2008 07:05	X	3	1 - Suppress	
2 ID: Type:	Dispatch: Arrival: Clear:				
3 ID: Type:	Dispatch: Arrival: Clear:				
4 ID: Type:	Dispatch: Arrival: Clear:				
5 ID: Type:	Dispatch: Arrival: Clear:				
6 ID: Type:	Dispatch: Arrival: Clear:				
7 ID: Type:	Dispatch: Arrival: Clear:				
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

NFIRS - 10
Personnel

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002769	0

B

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID: E-443 Type: 11	Dispatch 05/09/2008 05:56:19 Arrival 05/09/2008 06:01:51 Clear 05/09/2008 07:05:39	X	3 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
00392	Barrena, Richard	CP	X				
10925	Gunkel, Nathan	EPM	X				
15654	Kelsheimer, Jeff	PR	X				

2 ID:	Dispatch / Arrival / Clear	Sent	#		
Type:					

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

3 ID:	Dispatch / Arrival / Clear	Sent	#		
Type:					

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
6 - Directions	19358		JAMISON	Road	

Apt./Suite/Room	City	State	Zip Code
	TEHACHAPI	CA	93561

Census Tract

Cross street or directions, as applicable: 3 MILES SOUTH OF HWY 58 KEY 18

C Incident Type

162 - Outside equipment

D Aid Given or Received

Their FDID	Their State	Their Incident Number

N - None (Type Aid Given or Recieved)

E1 Dates & Times (Midnight is 0000)

	Month	Day	Year	Hour	Min	Seconds
Alarm	07/19/2008			12:23:11		
Arrival	07/19/2008			12:43:49		
Controlled						
Last Unit Cleared	07/19/2008			14:02:42		

E2 Shifts & Alarms (Local Option)

Shift or platoon	Alarms	District
A	1	184

E3 Special Studies (Local Option)

Special Study ID#	Special Study Value

F Actions Taken

11 - Extinguish

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	7	10
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 200000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 200000
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector: U - Unknown

H3 Hazardous Materials Release:

I Mixed Use Property:

J Property Use: 610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

B Property Details

B1 Estimated number of residential living units in building of origin: 0 — Not Residential: Y

B2 Number of buildings involved:

B3 Acres burned (outside fires):

C On-Site Materials or Products

On-site materials: NNN - None

On-site materials use:

D Ignition

D1 Area of fire origin: 83 - Engine area, running ge

D2 Heat source: 12 - Radiated, conducted hea

D3 Item first ignited: UU - Undetermined

D4 Type of material first ignited:

Confined to object of origin:

E1 Cause of Ignition

Cause of ignition: 2 - Unintentional

E2 Factors Contributing To Ignition

Factors contributing to ignition: UU - Undetermined

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved:

Gender of person involved:

F1 Equipment Involved In Ignition

Equipment Involved: 200 - Electrical distribution, p

Brand:

Model:

Serial #:

Year:

F2 Equipment Power

Equipment power source: 10 - Electrical, other

F3 Equipment Portability

Equipment portability: 2 - Stationary

G Fire Suppression Factors

Fire suppression factors:

H1 Mobile Property Involved

Mobile property involved:

H2 Mobile Property Type & Make

Mobile property type:

Mobile property make:

Mobile property model:

Year:

License plate number:

State:

VIN number:

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

NFIRS Remarks

Remarks

TITLE:CAD Narrative [CRLF]08048274 E Type: ST STRUCTURE Fire
Sub Type:
Disp:[CRLF]COMMENTS:[CRLF]~KEYMAP: ERROR PROCESSING ADDRESSWINDMILLS ON FIREWIND MILL AT THE TOP OF THE MTN ON FIRE NOT INTO THE GRASS PER THE RPANOTHER RP, CHIEF BILL BENDER ....AT THE GE WIND FARM....BENDER SAID IT WAS OFF TEH WILLOW SPRINGS RD"LL(35:05:31.0596,-118:17:45.6435)" AT: 07/19/08 12:28:58PER KB1 CXL E14 AND RESP E18E12 UNABLE TO SEE ANTHING YET.APPEARED TO BE BEHIND GE WIND FARM NO SMK SEENHOLD ALL INCOMING IN PLACE.11 TO HOLD AT 202 AND 58.PER SECURITY, TURBINE IS ON FIRE....BEING LED INATTEMPTING TO GAINACCESS...LITE SMK SHOWING.GO PAST GUARD SHACK, FOLLOW ROAD UPE12ON SCENE..LAUNCH 408 FOR BUCKET DROP.TURBINE MOTOR FIRE, WINDS ARE OUT OF SE 10-15MPHCPT408 COPIED10 MIN ETA.408 OFF KEEN P+1 1HR43MIN FUELHEADING 080 10 MIN ETA.408 OPS NORM1324.H408 ENRT BASE PILOT+1, 1/25 FUEL, ETA 10 MINS, HDG 307MESSAGE LEFT ON PIO CELL[CRLF][CRLF]TITLE:CO 12 [CRLF]CREW FOUND WIND TURBINE SMOLDERING AND DROPPING CHUNCKS OF INSULATION TO THE GROUND. CREW EXTINGUISHED 1 SMALL SPOT FIRE ON THE GROUND. H408 DISPATCHED TO MAKE 3 DROPS ON TURBINE. FIRE OUT. ADVISED SECURITY TO CHECK ON THE TOWER PERIODICLY. POWER CUT BY WORKER

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
K0614	Kevin Ostrinski	4590	1	07/19/2008

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
K0614	Kevin Ostrinski	4590	1	07/19/2008

NFIRS - 11
Arson

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

B Agency Referred To

Street Address:
Their Case Number: 0
Agency Name:
City:
Their ORI:
Agency Phone Number:
State:
Zip Code:
Their Federal Identifier (FID):
Their FDID:

C Case Status

Case Status:

D Availability of Material First Ignited

Availability of Material First Ignited:

E Suspected Motivation Factors

Suspected Motivation Factors:

F Apparent Group Involvement

Apparent Group Involvement:

G1 Entry Method

Entry Method:

G2 Extent of Fire Involvement on Arrival

Extent of Fire Involvement:

H Incendiary Devices

CONTAINER
Container:

IGNITION/DELAY DEVICE
Ignition/Delay Device:

FUEL
Fuel:

I Other Investigative Information

Other Investigative information:

J Property Ownership

Property Owenership:

K Initial Observations

Initial Observations:

L Laboratory Used

Laboratory Used:

M1 Subject Number

Subject Number: 1

M3 Gender

Gender:

M6 Family Type

Family Type:

M8 Disposition of Person Under 18

Disposition of Person Under 18:

M2 Age or Date of Birth

Age (in years):
OR
Month Day Year:

M4 Race

Race:

M5 Ethnicity

Ethnicity:

M7 Motivation/Risk Factors

Motivation/Risk Factors:

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: E18 Type: 11	Dispatch: 07/19/2008 12:31 Arrival: Clear: 07/19/2008 13:23	X	2	1 - Suppress	93
2 ID: E11 Type: 11	Dispatch: 07/19/2008 12:27 Arrival: Clear: 07/19/2008 13:37	X	3	1 - Suppress	
3 ID: KB1 Type: 92	Dispatch: 07/19/2008 12:27 Arrival: 07/19/2008 12:43 Clear: 07/19/2008 14:02	X	1	1 - Suppress	
4 ID: P12 Type: 16	Dispatch: 07/19/2008 12:30 Arrival: 07/19/2008 12:45 Clear: 07/19/2008 14:02	X	1	1 - Suppress	160
5 ID: E12 Type: 11	Dispatch: 07/19/2008 12:27 Arrival: 07/19/2008 12:54 Clear: 07/19/2008 14:02	X	2	1 - Suppress	160
6 ID: P11 Type: 16	Dispatch: 07/19/2008 12:31 Arrival: 07/19/2008 13:08 Clear: 07/19/2008 13:37	X	0	1 - Suppress	
7 ID: P18 Type: 16	Dispatch: 07/19/2008 12:33 Arrival: 07/19/2008 13:23 Clear: 07/19/2008 13:37	X	1	1 - Suppress	93
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

A | FDID: 15010 | State: CA | Incident Date (MM DD YYYY): 07/19/2008 | Station: K12 | Incident Number: 0822604 | Exposure: 0 | NFIRS - 10 Personnel

B — Apparatus or Resource | Dates and Times (Month Day Year Hours/Mins) | Sent [X] | Number of People | Use (Check ONE box for each apparatus to indicate its main use at the incident.) | Actions Taken (List up to 4 actions for each apparatus and each personnel.)

1 ID: E18 | Type: 11

Dispatch	07/19/2008	12:31:43	
Arrival			
Clear	07/19/2008	13:23:30	

Sent: X | Number of People (#): 2 | Use: 1 - Suppressi | Actions Taken: 93

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0199	Maestas, Ramon	4590	X				
K0807	Whitley, Parris	4595	X				

2 ID: E11 | Type: 11

Dispatch	07/19/2008	12:27:42	
Arrival			
Clear	07/19/2008	13:37:46	

Sent: X | Number of People (#): 3 | Use: 1 - Suppressi

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0477	Lewter, Charles	4595	X				
K0148	Pearson, Donald	4589 C	X				
K0736	Estrada, Fredrick	4639	X				

3 ID: KB1 | Type: 92

Dispatch	07/19/2008	12:27:41	
Arrival	07/19/2008	12:43:49	
Clear	07/19/2008	14:02:42	

Sent: X | Number of People (#): 1 | Use: 1 - Suppressi

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0215	Lechtreck, Robert	4580	X				

NFIRS - 10
Personnel

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

B

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID P12 Type 16	Dispatch 07/19/2008 12:30:05 Arrival 07/19/2008 12:45:49 Clear 07/19/2008 14:02:40	Sent X	1 #	1 - Suppressi	160

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0899	Yost, Christopher	4639	X				

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
2 ID E12 Type 11	Dispatch 07/19/2008 12:27:41 Arrival 07/19/2008 12:54:21 Clear 07/19/2008 14:02:35	Sent X	2 #	1 - Suppressi	160

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0614	Ostrinski, Kevin	4590	X				
K0768	Kingsbury, Tyson	4595	X				

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
3 ID P11 Type 16	Dispatch 07/19/2008 12:31:17 Arrival 07/19/2008 13:08:53 Clear 07/19/2008 13:37:46	Sent X	0 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

NFIRS - 10
Personnel

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	07/19/2008	K12	0822604	0

B

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID: P18 Type: 16	Dispatch 07/19/2008 12:33 Arrival 07/19/2008 13:23:07 Clear 07/19/2008 13:37:52	X	1 #	1 - Suppressi	93

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken
K0982	Erwin, John	4639	X				

2 ID: Type:	Dispatch Arrival Clear	Sent	#				

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken

3 ID: Type:	Dispatch Arrival Clear	Sent	#				

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
6 - Directions			Garnet	Avenue	

Apt./Suite/Room	City	State	Zip Code
	North Palm Springs	CA	92258

Census Tract:

Cross street or directions, as applicable: Off Garnet Ave, directly south

C Incident Type

160 - Special outside fi

Incident Type

D Aid Given or Received

Their FDID	Their State	Their Incident Number

1 - Mutual aid received

Type Aid Given or Recieved

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/04/2008			16:39		
Arrival	08/04/2008			16:53		
Controlled						
Last Unit Cleared	08/04/2008			20:01		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
		10

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

11 - Extinguish
41 - Identify, analyze hazardous materials
44 - Hazardous materials leak control & containment

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	7
EMS	0	0
Other	3	6

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$	12000
Contents	$	0

PRE-INCIDENT VALUE: Optional

Property	$	812000
Contents	$	0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

0 - Special hazmat actions required

I Mixed Use Property

J Property Use

615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix
Mr.	Gregory	J	Thill	

Number	Prefix	Street or Highway	Street Type	Suffix
1360		Geronimo	Trail	

Post Office Box	Apt./Suite/Room	City
		Yucca Valley

State	Zip Code	Business name (if applicable)	Area Code	Phone Number
CA	92284	AES	7604134273	

K2 Owner

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix

Number	Prefix	Street or Highway	Street Type	Suffix

Post Office Box	Apt./Suite/Room	City

State	Zip Code	Business name (if applicable)	Area Code	Phone Number

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
6 - Directions			Garnet	Avenue	

Apt./Suite/Room	City	State	Zip Code
	North Palm Springs	CA	92258

Census Tract:

Cross street or directions, as applicable: Off Garnet Ave, directly south

C Incident Type

160 - Special outside fi

D Aid Given or Received

Their FDID	Their State	Their Incident Number

1 - Mutual aid received

Type Aid Given or Recieved

E1 Dates & Times (Midnight is 0000)

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/04/2008			16:39		
Arrival	08/04/2008			16:53		
Controlled						
Last Unit Cleared	08/04/2008			20:01		

E2 Shifts & Alarms (Local Option)

Shift or platoon	Alarms	District
		10

E3 Special Studies (Local Option)

Special Study ID#	Special Study Value

F Actions Taken

11 - Extinguish
41 - Identify, analyze hazardous materials
44 - Hazardous materials leak control & containment

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	7
EMS	0	0
Other	3	6

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 12000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 812000
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release: 0 - Special hazmat actions required

I Mixed Use Property

J Property Use: 615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	0

B Property Details

B1 0 — Estimated number of residential living units in building of origin
Y — Not Residential

B2 — Number of buildings involved

B3 0 — Acres burned (outside fires)

C On-Site Materials or Products

NNN - None — On-site materials

N - None — On-site materials use

D Ignition

D1 63 - Switchgear area, transf — Area of fire origin

D2 13 - Arcing — Heat source

D3 81 - Electrical wire, cable — Item first ignited

D4 — Type of material first ignited

— Confined to object of origin

E1 Cause of Ignition

3 - Failure of equipment or heat — Cause of ignition

E2 Factors Contributing To Ignition

36 - Arc, spark from operating equipment — Factors contributing to ignition

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved

Gender of person involved

F1 Equipment Involved In Ignition

200 - Electrical distribution, p — Equipment Involved

Brand

Model

01J286107 — Serial #

Year

F2 Equipment Power

54 - Wind — Equipment power source

F3 Equipment Portability

2 - Stationary — Equipment portability

G Fire Suppression Factors

325 - Flammable/combustible liquid hazard — Fire suppression factors

H1 Mobile Property Involved

N - None — Mobile property involved

H2 Mobile Property Type & Make

Mobile property type

Mobile property make

Mobile property model

Year

License plate number

State

VIN number

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	0

NFIRS Remarks

Remarks

Fin Type = FOIResponded to reported windmill fire. On scene, observed windmill transformer sub-station on fire. Was advised by company reps that power was secured, but unit held approx 500 gals of mineral oil. Requested Haz-Mat response. Mineral oil leak
ed into container built around transformer unit, with minimal (less than 5 gal)oil leak outside of container due to small explosion at ignition. Approx less than 20 gal leak.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
100509	William Bryant	FC	36-OT	08/04/2008

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
100509	William Bryant	FC	36-OT	08/04/2008

NFIRS - 7 HazMat

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure	Haz No
33090	CA	08/04/2008	RRU	68515	0	1

B HazMat ID

UN Number | DOT Hazard Classification | CAS Registration Number

Chemical name

C1 Container Type

Container Type

C2 Estimated Container Capacity

Capacity: by volume or weight

C3 Units: Capacity

Units: Capacity

D1 Estimated Amount Released

Amount released: by volume or weight

D2 Units: Released

Units: Released

E1 Physical State When Released

Physical state when released

E2 Released Into

Released into

F1 Released From:

2 - Outside S

Released from:

0 Story of release

F2 Population Density

3 - Rural - Scatt

Population density

G1 Area Affected

1 - Square Unit of measure

100

Area affected

G2 Area Evacuated

1 - Square Unit of measure

Area evacuated

G3 People Evacuated

G4 Estimated Number of Buildings Evacuated

H HazMat Actions Taken

31 - Refer to proper authority

HazMat actions taken

I If fire or explosion is involved with a release, which occurred first?

1 - Ignition

Release/fire sequence

J Cause of Release

3 - Container or cont

Cause of release

K Factors Contributing to Release

UU - Undetermined

Factors contributing to release

L Factors Affecting Mitigation

NN - None

Factors affecting mitigation

M Equipment Involved In Release

221 - Transformer, distributid

Equipment involved in release

Brand

Model

Serial Number 01J286107

Year

N Mobile Property Involved in Release

Mobile property type

Mobile property make

Model | Year

License Plate Number | State

DOT Number/ ICC Number

O HazMat Disposition

7 - Released to private a

HazMat disposition

P HazMat Civilian Casualties

Deaths | Injuries

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	1

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
6 - Directions			Garnet	Avenue	

Apt./Suite/Room	City	State	Zip Code
	North Palm Springs	CA	92258

Census Tract:

Cross street or directions, as applicable: Directly south of I-10 / Hwy 6

C Incident Type

160 - Special outside fi

D Aid Given or Received

Their FDID	Their State	Their Incident Number

Type Aid Given or Recieved: 1 - Mutual aid received

E1 Dates & Times (Midnight is 0000)

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/04/2008			16:39		
Arrival	08/04/2008			16:53		
Controlled						
Last Unit Cleared	08/04/2008			20:01		

E2 Shifts & Alarms (Local Option)

Shift or platoon	Alarms	District
		10

E3 Special Studies (Local Option)

Special Study ID#	Special Study Value

F Actions Taken

10 - Fire, other

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	7
EMS	0	0
Other	3	6

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 12000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 81200
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use: 615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	1

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
6 - Directions			Garnet	Avenue	

Apt./Suite/Room	City	State	Zip Code
	North Palm Springs	CA	92258

Census Tract:

Cross street or directions, as applicable: Directly south of I-10 / Hwy 6

C Incident Type

160 - Special outside fi

D Aid Given or Received

Their FDID	Their State	Their Incident Number

1 - Mutual aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/04/2008			16:39		
Arrival	08/04/2008			16:53		
Controlled						
Last Unit Cleared	08/04/2008			20:01		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
		10

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

10 - Fire, other

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	7
EMS	0	0
Other	3	6

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 12000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 81200
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix
Mr.	Gregory	J	Thill	

Number	Prefix	Street or Highway	Street Type	Suffix
1360		Geronimo	Trail	

Post Office Box	Apt./Suite/Room	City
		Yucca Valley

State	Zip Code	Business name (if applicable)	Area Code	Phone Number
CA	92284	AES	7604134273	

K2 Owner

Mr., Ms., Mrs.	First Name	MI	Last Name	Suffix

Number	Prefix	Street or Highway	Street Type	Suffix

Post Office Box	Apt./Suite/Room	City

State	Zip Code	Business name (if applicable)	Area Code	Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	1

B Property Details

B1 Estimated number of residential living units in building of origin: 0 — Not Residential: Y

B2 Number of buildings involved:

B3 Acres burned (outside fires): 0

C On-Site Materials or Products

On-site materials: NNN - None

On-site materials use: N - None

D Ignition

D1 Area of fire origin: 63 - Switchgear area, transf

D2 Heat source: 13 - Arcing

D3 Item first ignited: 81 - Electrical wire, cable

D4 Type of material first ignited:

Confined to object of origin:

E1 Cause of Ignition

Cause of ignition: 0 - Cause, other (conversion and

E2 Factors Contributing To Ignition

Factors contributing to ignition: 71 - Exposure fire

E3 Human Factors Contributing To Ignition

Estimated age of person involved:

Gender of person involved:

F1 Equipment Involved In Ignition

Equipment Involved: 200 - Electrical distribution, p

Brand:

Model:

Serial #: 01J286107

Year:

F2 Equipment Power

Equipment power source: 54 - Wind

F3 Equipment Portability

Equipment portability: 2 - Stationary

G Fire Suppression Factors

Fire suppression factors: 325 - Flammable/combustible liquid hazard

H1 Mobile Property Involved

Mobile property involved: N - None

H2 Mobile Property Type & Make

Mobile property type:

Mobile property make:

Mobile property model:

Year:

License plate number:

State:

VIN number:

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33090	CA	08/04/2008	RRU	68515	1

NFIRS Remarks

Remarks

Exposure was wind turbine, approx. 5' from electrical transformer substation on ground. Damage to wind turbine was limited to charring on the exterior, on the side facing the substation, approx. 20' high. The wind turbine was opened, and AES employees con firmed the electrical panels inside received no damage.

M

Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
100509	William Bryant	FC	36-OT	08/04/2008

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
100509	William Bryant	FC	36-OT	08/04/2008

Exhibit E.2: Two Incidents At Wind Power Facilities With Undeterminable Cause, 2008 – 2010

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	08/28/2008	20	0816142	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
2 - Intersection			MOUNTAIN HOUSE RD		

Apt./Suite/Room	City	State	Zip Code
	LIVERMORE	CA	94550

Census Tract:

Cross street or directions, as applicable: GRANT LINE RD

C Incident Type

143 - Grass fire

D Aid Given or Received

Their FDID	Their State	Their Incident Number

1 - Mutual aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	08	28	2008	02	18	24
Arrival	08	28	2008	02	36	38
Controlled	08	28	2008	02	52	
Last Unit Cleared	08	28	2008	03	52	17

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
A	1	

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

11 - Extinguish

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	5	8
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 0
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 0
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

U - Unknown

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	08/28/2008	20	0816142	0

B Alternate Location Specification

Latitude | Longitude

OR

Township | Range

Section | Subsection | Meridian

C Area Type

Area type: 1 - Rural, including farms >5

D1 Wildland Fire Cause

Wildland fire cause: U - Undetermined

D2 Human Factors Contributing To Ignition

Human factors contributing to ignition

D3 Factors Contributing To Ignition

Factors contributing to ignition

D4 Fire Suppression Factors

Fire suppression factors

E Heat Source

F Mobile Property Type

G Equipment Involved in Ignition

H Weather Information

NFDRS Weather Station ID | Wind Direction

Weather Type

Wind speed MPH | Air Temperature F° | Relative Humidity %

Fuel Moisture % | Fire Danger Rating

I1 Number of Buildings Ignited

Number of buildings that were ignited in Wildland fire

I2 Number of Buildings Threatened

Number of buildings that were threatened by Wildland fire but were not involved

I3 Total Acres Burned

1.0

I4 Primary Crops Burned

Crops Burned

J Property Management

Ownership

	% Total Acres Burned
Undetermined	100 %
Tax paying	0 %
Non tax paying	0 %
City, town, village, local	0 %
County or parish	0 %
State or province	0 %
Federal (Federal Agency Code)	0 %
Foreign	0 %
Military	0 %
Other	0 %

K NFDRS Fuel Model at Origin

Fuel Model

L1 Person Responsible For Fire

Person Responsible for Fire

L2 Gender of Person Involved

Gender of person involved

L3 Age or Date of Birth

Age in Years: 0.0 OR Date of Birth (Month Day Year)

L4 Activity of Person

Activity of Person Involved

M Right of Way

0 Feet — Horizontal distance from right of way

Type of right of way: 931 - Open land, field

N Fire Behavior

Elevation (Feet)

Relative position on slope

Aspect

Flame Length (Feet)

Rate of spread (Chains per Hour)

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	08/28/2008	20	0816142	0

NFIRS Remarks

Remarks

TITLE:CAD Narrative [CRLF]20080057312 E Type: WVF WORKING VEGETATION FIRE
Sub Type:
Disp:[CRLF]COMMENTS:[CRLF]GRASS FIRE150 YARDS OFF OF THE ROADWAYNEAR THE WINDMILLSON MOUNTAIN HOUSE RD APPROX 1/4 FRM GRANTLINESEES FLAMESRIGHT HAND SIDERP HEADING FRM LIVERMORE TWRDS TRACYLP ADVISED ON DELAY1/2 MI FRM HIS HOUSECENTRAL PKW/MASCOT3488- WORKING FIRE08/28/08 02:36:10 REQUEST CDF FOR SET ACF WVF.08/28/08 02:36:14 REQUEST LAW FOR SET ACF WVF.08/28/08 02:36:14 NOTIFY LAW FOR SET ACF WVF.1810- 21810- ONS W/CAL FIRE, APPRX 2 ACRES, SLOW RATE, WITH MODERATE WINDCHIEF BRADLEY ADVISEDCHIEF GILBERT ADVSCHIEF ROCHA RECV'D PG1810- FIRE CONTAINED, XCEL 1590, 1561[CRLF][CRLF]TITLE:1881 [CRLF]At 0218 hours on Thursday August 28, 2008 we were dispatched to a grass fire. Five units were assigned to this incident. Eight personnel responded. We arrived on scene at 0236 hours and cleared at 0352 hours. The incident occurred at On MOUNTAIN HOUSE RD at GRANT LINE RD, LIVERMORE. The local station is 20. The general description of this property is electric generating plant. The area is described as rural. The primary task(s) performed at the scene by responding personnel was extinguishment. Mutual aid was received on this incident.[CRLF][CRLF]The cause of ignition was undetermined.[CRLF][CRLF]Alarm number 0816142 has been assigned to this incident.[CRLF][CRLF]Veg fire at the windmill farm. Cause undetermined. Released by IC VanWormer.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
383	GARY LINNEY	BC	1	09/01/2008
381	GORDON DAKIN	C	1	09/01/2008

Member making report ID

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	08/28/2008	20	0816142	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID 1810 Type 92	Dispatch 08/28/2008 02:18 Arrival 08/28/2008 02:36 Clear 08/28/2008 03:13	X	1	1 - Suppress	70
2 ID 1881 Type 16	Dispatch 08/28/2008 02:18 Arrival 08/28/2008 02:36 Clear 08/28/2008 03:47	X	2	1 - Suppress	11
3 ID 3468 Type 11	Dispatch 08/28/2008 02:18 Arrival 08/28/2008 02:37 Clear 08/28/2008 03:52	X	1	1 - Suppress	11
4 ID 3488 Type 16	Dispatch 08/28/2008 02:18 Arrival 08/28/2008 02:37 Clear 08/28/2008 03:52	X	2	1 - Suppress	11
5 ID 1861 Type 11	Dispatch 08/28/2008 02:18 Arrival 08/28/2008 02:37 Clear 08/28/2008 03:47	X	2	1 - Suppress	11
6 ID Type	Dispatch Arrival Clear				
7 ID Type	Dispatch Arrival Clear				
8 ID Type	Dispatch Arrival Clear				
9 ID Type	Dispatch Arrival Clear				
10 ID Type	Dispatch Arrival Clear				
11 ID Type	Dispatch Arrival Clear				
12 ID Type	Dispatch Arrival Clear				
13 ID Type	Dispatch Arrival Clear				

A | FDID: 01008 | State: CA | Incident Date (MM DD YYYY): 08/28/2008 | Station: 20 | Incident Number: 0816142 | Exposure: 0 | NFIRS - 10 Personnel

B — Apparatus or Resource

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID 1810 Type 92	Dispatch 08/28/2008 02:18:25 Arrival 08/28/2008 02:36:38 Clear 08/28/2008 03:13:41	X	1 #	1 - Suppressi	70

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken
383	LINNEY, GARY	BC	X				

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
2 ID 1881 Type 16	Dispatch 08/28/2008 02:18:25 Arrival 08/28/2008 02:36:58 Clear 08/28/2008 03:47:58	X	2 #	1 - Suppressi	11

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken
381	DAKIN, GORDON	C	X	11			
411	HAMILTON, MICHAEL	FF	X	11			

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
3 ID 3468 Type 11	Dispatch 08/28/2008 02:18:24 Arrival 08/28/2008 02:37:02 Clear 08/28/2008 03:52:16	X	1 #	1 - Suppressi	11

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken
095	WRIGHT, ERIC	E	X	11			

A | FDID: 01008 | State: CA | Incident Date (MM DD YYYY): 08/28/2008 | Station: 20 | Incident Number: 0816142 | Exposure: 0 | NFIRS - 10 Personnel

B — Apparatus or Resource 1

ID	Type	Dates and Times (Month Day Year Hours/Mins)	Sent	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
3488	16	Dispatch 08/28/2008 02:18:25 Arrival 08/28/2008 02:37:05 Clear 08/28/2008 03:52:09	X	2	1 - Suppressi	11

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
090	EVANS, PAUL	C	X	11			
093	KNIGHT, STEPHEN	FF	X	11			

B — Apparatus or Resource 2

ID	Type	Dates and Times (Month Day Year Hours/Mins)	Sent	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1861	11	Dispatch 08/28/2008 02:18:25 Arrival 08/28/2008 02:37:11 Clear 08/28/2008 03:47:55	X	2	1 - Suppressi	11

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
402	DWYER, EDWARD	E	X	11			
413	PEREZ, JUAN	FF	X	11			

B — Apparatus or Resource 3

ID	Type	Dates and Times (Month Day Year Hours/Mins)	Sent	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
		Dispatch Arrival Clear				

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	08/25/2010	SCU	3544	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
5 - Adjacent to	11700	South	Flynn	Road	

Apt./Suite/Room	City	State	Zip Code
	ALTAMONT	CA	94550

Census Tract:

Cross street or directions, as applicable: 12599 BLK S FLYNN RD, 4WD ROAD

C Incident Type

143 - Grass fire

D Aid Given or Received

Their FDID	Their State	Their Incident Number

2 - Automatic aid received

Type Aid Given or Recieved

E1 Dates & Times (Midnight is 0000)

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/25/2010			18:57		
Arrival	08/25/2010			19:09		
Controlled	08/25/2010			19:47		
Last Unit Cleared	08/25/2010			21:19		

E2 Shifts & Alarms (Local Option)

Shift or platoon	Alarms	District
		161

E3 Special Studies (Local Option)

Special Study ID#	Special Study Value

F Actions Taken

14 - Contain fire (wildland)
16 - Control fire (wildland)
86 - Investigate

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	9	23
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 300
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 300
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release: N - None

I Mixed Use Property

J Property Use: 610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	08/25/2010	SCU	3544	0

B Alternate Location Specification

Latitude: _____ Longitude: _____

OR

Township: _____ Range: _____

Section: _____ Subsection: _____ Meridian: _____

C Area Type

Area type: 1 - Rural, including farms >5

D1 Wildland Fire Cause

Wildland fire cause: 2 - Equipment

D2 Human Factors Contributing To Ignition

Human factors contributing to ignition: N - None

D3 Factors Contributing To Ignition

Factors contributing to ignition: 34 - Unspecified short-circuit arc

D4 Fire Suppression Factors

Fire suppression factors: NNN - None

E Heat Source

13 - Arcing

F Mobile Property Type

NN - None

G Equipment Involved in Ignition

000 - Other equipment invo

H Weather Information

NFDRS Weather Station ID: _____

Wind Direction: 7 - West

Weather Type: 10 - Clear, less than 1/10 cloud

Wind speed MPH: 20

Air Temperature: 86 F°

Relative Humidity: 32 %

Fuel Moisture: _____ %

Fire Danger Rating: 3 - High fire danger

I1 Number of Buildings Ignited

Number of buildings that were ignited in Wildland fire: _____

I2 Number of Buildings Threatened

Number of buildings that were threatened by Wildland fire but were not involved: _____

I3 Total Acres Burned

3.0

I4 Primary Crops Burned

annual grass

Crops Burned

J Property Management

Ownership: 1 - Tax paying

	% Total Acres Burned
Undetermined	%
Tax paying	100 %
Non tax paying	%
City, town, village, local	%
County or parish	%
State or province	%
Federal (Federal Agency Code: _____)	%
Foreign	%
Military	%
Other	%

K NFDRS Fuel Model at Origin

Fuel Model: 01 - A: Annual Grasses.

L1 Person Responsible For Fire

Person Responsible for Fire: 2 - Unknown person caused

L2 Gender of Person Involved

Gender of person involved: _____

L3 Age or Date of Birth

Age in Years: _____ OR Date of Birth (Month Day Year): _____

L4 Activity of Person

Activity of Person Involved: _____

M Right of Way

_____ Feet — Horizontal distance from right of way

Type of right of way: _____

N Fire Behavior

1237 Feet — Elevation

4 - Ridge Top — Relative position on slope

8 - North — Aspect

3 Feet — Flame Length

20 Chains per Hour — Rate of spread

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	08/25/2010	SCU	3544	0

NFIRS Remarks

Remarks

Fin Type = FWLOn Wednesday, August 25, 2010 I was assigned as the Company Officer on Engine 1695 at the Castle Rock CAL FIRE Station, Station 26. At 1857 hours, the Emergency Command Center (ECC) for Cal Fire in Morgan Hill received a 911-telephone repo
rt of a vegetation fire on the south side of Highway 580 near Flynn Road. The ECC initiated a high vegetation response and I was dispatched on Engine 1695. Upon my arrival, I observed a vegetation fire, approximately 2 acres in size off Flynn Road, nort
heast of Gate 4 at a slow rate of spread. I immediately began fire suppression efforts with a mobile attack on the right flank of the fire. At approximately 1931 hours, the fire was contained to 3 acres. I then began the origin and cause investigation
of the fire. Burn indicators and fire origin had been destroyed by ALCO Engine 420 during suppression efforts. The general area of the fire origin was in the area of the windmills. I noticed that 2 of the windmills were not in operation. I then contac
ted the Flynn Incident Commander, (B1612) Battalion Chief Dave McLean and asked him to contact a representative from the windmill farm. At 2030 hours, Chief McLean spoke to (O1) Angie Dean of Greenridge. She said that a circuit had been tripped on windm
ill #'s 3002 and 965. I located both windmills and reexamined the area looking for evidence. Nothing was found in the area. I then photographed both windmill identification numbers (P1 and P2). Further examination of the specific origin area did not
reveal any other sources of ignition.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
	Charles Carroll	FAE		08/25/2010

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
	Charles Carroll			08/25/2010

Exhibit E.3: Two Incidents At Wind Power Facilities Not Attributable to Turbine Fire, 2008 – 2010

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	05/19/2009	SCU	2094	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
5 - Adjacent to	3014		Patterson Pass		

Apt./Suite/Room	City	State	Zip Code
	ALTAMONT	CA	95377

Census Tract

Cross street or directions, as applicable

C Incident Type

143 - Grass fire

D Aid Given or Received

Their FDID	Their State	Their Incident Number

2 - Automatic aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	05/19/2009			19:39		
Arrival	05/19/2009			19:59		
Controlled	05/19/2009			20:15		
Last Unit Cleared	05/19/2009			20:47		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
		161

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

11 - Extinguish

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	6
EMS	0	0
Other	3	3

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 0
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 0
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

U - Unknown

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	05/19/2009	SCU	2094	0

B Alternate Location Specification

Latitude: | Longitude:

OR

Township: | Range:

Section: | Subsection: | Meridian:

C Area Type

Area type: 1 - Rural, including farms >5

D1 Wildland Fire Cause

Wildland fire cause: 0 - Other cause

D2 Human Factors Contributing To Ignition

Human factors contributing to ignition: N - None

D3 Factors Contributing To Ignition

Factors contributing to ignition: 36 - Arc, spark from operating equipment

D4 Fire Suppression Factors

Fire suppression factors: 000 - Fire supression factor, other

E Heat Source

10 - Heat from powered equ

F Mobile Property Type

NN - None

G Equipment Involved in Ignition

200 - Electrical distribut

H Weather Information

NFDRS Weather Station ID:

Wind Direction: 3 - East

Weather Type: 10 - Clear, less than 1/10 cloud

Wind speed MPH	Air Temperature	Relative Humidity	Fuel Moisture
35	63 F°	20 %	%

Fire Danger Rating: 3 - High fire danger

I1 Number of Buildings Ignited

0

Number of buildings that were ignited in Wildland fire

I2 Number of Buildings Threatened

0

Number of buildings that were threatened by Wildland fire but were not involved

I3 Total Acres Burned

1.0

I4 Primary Crops Burned

Crops Burned:

J Property Management

Ownership: 1 - Tax paying

	% Total Acres Burned
Undetermined	%
Tax paying	100 %
Non tax paying	%
City, town, village, local	%
County or parish	%
State or province	%
Federal (Federal Agency Code)	%
Foreign	%
Military	%
Other	%

K NFDRS Fuel Model at Origin

Fuel Model: 01 - A: Annual Grasses.

L1 Person Responsible For Fire

Person Responsible for Fire: 3 - Fire not caused by pe

L2 Gender of Person Involved

Gender of person involved:

L3 Age or Date of Birth

Age in Years: | OR | Date of Birth (Month Day Year):

L4 Activity of Person

Activity of Person Involved:

M Right of Way

99 Feet

Horizontal distance from right of way

Type of right of way: 983 - Pipeline, power line

N Fire Behavior

750 Feet

Elevation

3 - Upper Slope

Relative position on slope

Aspect:

2 Feet

Flame Length

2 Chains per Hour

Rate of spread

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	05/19/2009	SCU	2094	0

NFIRS Remarks

Remarks

Fin Type = FWL Engine 1664 responded to a reported vegetation fire off of Patterson Pass road. The fire was held be roads and disk line at about an acer of grass, no damage, the fire was next several windmills.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
1617	Craig Collins	FAE	Sunol	05/19/2009

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
1617	Craig Collins	FAE	Sunol	05/19/2009

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	07/26/2009	20	0913160	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
1 - Street addres	10619		ALTAMONT PASS	Road	

Apt./Suite/Room	City	State	Zip Code
	LIVERMORE	CA	94550

Census Tract:

Cross street or directions, as applicable:

C Incident Type

143 - Grass fire

D Aid Given or Received

Their FDID	Their State	Their Incident Number

N - None

Type Aid Given or Recieved

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	07/26/2009			16:20:30		
Arrival	07/26/2009			16:22:30		
Controlled	07/26/2009			16:25		
Last Unit Cleared	07/26/2009			16:57:51		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
B	1	

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

13 - Establish fire lines (wildfire)

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	3	4
EMS	4	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 0
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 0
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

U - Unknown

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	07/26/2009	20	0913160	0

B Alternate Location Specification

Latitude | Longitude

OR

Township | Range

Section | Subsection | Meridian

C Area Type

Area type: 4 - Urban -wildland interface

D1 Wildland Fire Cause

Wildland fire cause: 2 - Equipment

D2 Human Factors Contributing To Ignition

Human factors contributing to ignition

D3 Factors Contributing To Ignition

Factors contributing to ignition

D4 Fire Suppression Factors

Fire suppression factors

E Heat Source

F Mobile Property Type

G Equipment Involved in Ignition

H Weather Information

NFDRS Weather Station ID | Wind Direction

Weather Type

Wind speed MPH | Air Temperature F° | Relative Humidity %

Fuel Moisture % | Fire Danger Rating

I1 Number of Buildings Ignited

Number of buildings that were ignited in Wildland fire

I2 Number of Buildings Threatened

Number of buildings that were threatened by Wildland fire but were not involved

I3 Total Acres Burned

0.5

I4 Primary Crops Burned

Crops Burned

J Property Management

Ownership

	% Total Acres Burned
Undetermined	100 %
Tax paying	0 %
Non tax paying	0 %
City, town, village, local	0 %
County or parish	0 %
State or province	0 %
Federal (Federal Agency Code)	0 %
Foreign	0 %
Military	0 %
Other	0 %

K NFDRS Fuel Model at Origin

Fuel Model

L1 Person Responsible For Fire

Person Responsible for Fire

L2 Gender of Person Involved

Gender of person involved

L3 Age or Date of Birth

Age in Years: 0.0 OR Date of Birth (Month Day Year)

L4 Activity of Person

Activity of Person Involved

M Right of Way

0 Feet — Horizontal distance from right of way

NNN - None — Type of right of way

N Fire Behavior

Elevation (Feet)

Relative position on slope

Aspect

Flame Length (Feet)

Rate of spread (Chains per Hour)

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	07/26/2009	20	0913160	0

NFIRS Remarks

Remarks

TITLE:CAD Narrative [CRLF]20090047389 E Type: VEG VEGETATION RESPONSE
Sub Type:
Disp:[CRLF]COMMENTS:[CRLF]MAY BE UNDER CONTROL PER RP STILL ON THE PHONEON THE RIDGE FROM HIS ADDRESSCONTAINED 10 FEET DIAMETERGRASS - CONTAINED NOWCALLING LIFE COMADV PFDPFD ADVD GREENVILLE GATEON DELAY W/ LPPER B 3 ONS BEING WAVED DOWNE 410 JUST PAST OLD ALTMONT GARAGE ON THE RIGHTE 410 ADV ON A GRAVEL ROAD RP IS LEADING THE CREW INBAD RADIO IN THE AREA CANT HEAR CREWSPOSS MARKING THE GATEPER B 3 ONS 30 BY 30 FT CONTAINED XCLE BAL STA 8 STA 20 TO HANDLECALLING CDFLIFE COM ADV TO XCELFIRE IS OUT BO3 IS AOSPER B 3 FIRE OUT MOP UP COMCPLET[CRLF][CRLF]TITLE:E420 [CRLF]At 1620 hours on Sunday July 26, 2009 we were dispatched to a grass fire. Seven units were assigned to this incident. Four personnel responded. We arrived on scene at 1622 hours and cleared at 1657 hours. The incident occurred at 10619 ALTAMONT PASS Rd, LIVERMORE. The local station is 20. The general description of this property is electric generating plant. The location is described as urban/wildland interface area. The primary task(s) performed at the scene by responding personnel was the establishment of fire lines. No mutual/automatic aid was given or received.[CRLF][CRLF]The cause of ignition was from equipment.[CRLF][CRLF]Alarm number 0913160 has been assigned to this incident.[CRLF]TITLE:Jones [CRLF]Sta. 20 & 8 units arrived on scene and were escorted by windmill employees to the site. Approx. 1/4 acre of grass had been burned. But due to the fire backing into the wind and the fact that the fore was contained on all sides, the fire had burned itself out by FD arrival. Sta. 8 & 20 units remained on scene to overhaul the area. All other units were canceled. The fire started due to employees re-energizing the windmills due to a power outage. A panel shorted starting the fire.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
388	GARY JONES	C	1	07/26/2009

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
388	GARY JONES	C	1	07/26/2009

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	07/26/2009	20	0913160	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: E18 Type: 11	Dispatch: 07/26/2009 16:25 Arrival: Clear: 07/26/2009 16:36	X	3	1 - Suppress	93
2 ID: E418 Type: 16	Dispatch: 07/26/2009 16:20 Arrival: 07/26/2009 16:22 Clear: 07/26/2009 16:36	X	0	1 - Suppress	93
3 ID: E420 Type: 16	Dispatch: 07/26/2009 16:27 Arrival: 07/26/2009 16:33 Clear: 07/26/2009 16:57	X	0	2 - EMS	13
4 ID: E308 Type: 11	Dispatch: 07/26/2009 16:20 Arrival: 07/26/2009 16:35 Clear: 07/26/2009 16:57	X	0	2 - EMS	13
5 ID: E408 Type: 16	Dispatch: 07/26/2009 16:20 Arrival: 07/26/2009 16:35 Clear: 07/26/2009 16:57	X	0	2 - EMS	13
6 ID: E320 Type: 11	Dispatch: 07/26/2009 16:20 Arrival: 07/26/2009 16:37 Clear: 07/26/2009 16:57	X	0	2 - EMS	13
7 ID: B03 Type: 92	Dispatch: 07/26/2009 16:20 Arrival: 07/26/2009 16:37 Clear: 07/26/2009 16:57	X	1	1 - Suppress	81
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

A | FDID: 01008 | State: CA | Incident Date (MM DD YYYY): 07/26/2009 | Station: 20 | Incident Number: 0913160 | Exposure: 0 | NFIRS - 10 Personnel

B — Apparatus or Resource | Dates and Times (Month Day Year Hours/Mins) | Sent [X] | Number of People | Use (Check ONE box for each apparatus to indicate its main use at the incident.) | Actions Taken (List up to 4 actions for each apparatus and each personnel.)

1 ID: E18 | Type: 11

	Month Day Year	Hours/Mins
Dispatch	07/26/2009	16:25:34
Arrival		
Clear	07/26/2009	16:36:46

Sent: X | Number of People: 3 | Use: 1 - Suppressi | Actions Taken: 93

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
199	SCHORD III, ROBERT	E	X				
228	SILVA, JEFF	C	X				
377	UNRUH, JEFFREY	FF	X				

2 ID: E418 | Type: 16

	Month Day Year	Hours/Mins
Dispatch	07/26/2009	16:20:31
Arrival	07/26/2009	16:22:30
Clear	07/26/2009	16:36:58

Sent: X | Number of People: 0 | Use: 1 - Suppressi | Actions Taken: 93

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

3 ID: E420 | Type: 16

	Month Day Year	Hours/Mins
Dispatch	07/26/2009	16:27:05
Arrival	07/26/2009	16:33:57
Clear	07/26/2009	16:57:51

Sent: X | Number of People: 0 | Use: 2 - EMS | Actions Taken: 13

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

A | FDID: 01008 | State: CA | Incident Date (MM DD YYYY): 07/26/2009 | Station: 20 | Incident Number: 0913160 | Exposure: 0 | NFIRS - 10 Personnel

B Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent X	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID: E308 Type: 11	Dispatch 07/26/2009 16:20:30 Arrival 07/26/2009 16:35:04 Clear 07/26/2009 16:57:51	Sent: X	0 #	2 - EMS	13

Personnel ID	Name	Rank or Grade	Attend X	Action Taken	Action Taken	Action Taken	Action Taken

Apparatus	Dates and Times	Sent	Number of People	Use	Actions Taken
2 ID: E408 Type: 16	Dispatch 07/26/2009 16:20:30 Arrival 07/26/2009 16:35:08 Clear 07/26/2009 16:57:51	Sent: X	0 #	2 - EMS	13

Personnel ID	Name	Rank or Grade	Attend X	Action Taken	Action Taken	Action Taken	Action Taken

Apparatus	Dates and Times	Sent	Number of People	Use	Actions Taken
3 ID: E320 Type: 11	Dispatch 07/26/2009 16:20:31 Arrival 07/26/2009 16:37:10 Clear 07/26/2009 16:57:51	Sent: X	0 #	2 - EMS	13

Personnel ID	Name	Rank or Grade	Attend X	Action Taken	Action Taken	Action Taken	Action Taken

NFIRS - 10
Personnel

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01008	CA	07/26/2009	20	0913160	0

B

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID B03 Type 92	Dispatch 07/26/2009 16:20:31 Arrival 07/26/2009 16:37:13 Clear 07/26/2009 16:57:51	X	1 #	1 - Suppressi	81

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken
379	WATKINS, JAMES	BC	X				

2 ID Type	Dispatch Arrival Clear	Sent	#

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken

3 ID Type	Dispatch Arrival Clear	Sent	#

Personnel ID	Name	Rank or Grade	Attend (X)	Action Taken	Action Taken	Action Taken	Action Taken

Exhibit E.4: Incidents Wholly Unrelated to Wind Power Facilities

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002773	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
2 - Intersection		North	INDIAN CANYON	Drive	

Apt./Suite/Room	City	State	Zip Code
	Palm Springs	CA	92262

Census Tract: 570201

Cross street or directions, as applicable: INTERSTATE 10

C Incident Type

622 - No incident found

D Aid Given or Received

Their FDID	Their State	Their Incident Number

Type Aid Given or Recieved: 2 - Automatic aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	05	09	2008	17	29	12
Arrival	05	09	2008	17	40	
Controlled	05	09	2008	17	40	
Last Unit Cleared	05	09	2008	17	47	

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
A	0	443

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

86 - Investigate

G1 Resources

Y Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	4	9
EMS	0	0
Other	0	0

N Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 0
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$
Contents	$

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

961 - Highway or divided highway

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002773	0

B Alternate Location Specification

Latitude: 0.0
Longitude: 0.0

OR

Township:
Range:
Section:
Subsection:
Meridian:

C Area Type

3 - Rural/urban or suburban

Area type

D1 Wildland Fire Cause

U - Undetermined

Wildland fire cause

D2 Human Factors Contributing To Ignition

Human factors contributing to ignition

D3 Factors Contributing To Ignition

Factors contributing to ignition

D4 Fire Suppression Factors

NNN - None

Fire suppression factors

E Heat Source

UU - Undetermined

F Mobile Property Type

G Equipment Involved in Ignition

H Weather Information

NFDRS Weather Station ID:
Wind Direction:
Weather Type:
Wind speed MPH:
Air Temperature: F°
Relative Humidity: %
Fuel Moisture: %
Fire Danger Rating:

I1 Number of Buildings Ignited

0

Number of buildings that were ignited in Wildland fire

I2 Number of Buildings Threatened

0

Number of buildings that were threatened by Wildland fire but were not involved

I3 Total Acres Burned

0.1

I4 Primary Crops Burned

Crops Burned

J Property Management

Ownership:

	% Total Acres Burned
Undetermined	0 %
Tax paying	0 %
Non tax paying	0 %
City, town, village, local	0 %
County or parish	0 %
State or province	0 %
Federal (Federal Agency Code)	0 %
Foreign	0 %
Military	0 %
Other	0 %

K NFDRS Fuel Model at Origin

Fuel Model:

L1 Person Responsible For Fire

Person Responsible for Fire:

L2 Gender of Person Involved

Gender of person involved:

L3 Age or Date of Birth

Age in Years:

OR

Date of Birth (Month Day Year):

L4 Activity of Person

Activity of Person Involved:

M Right of Way

Feet — Horizontal distance from right of way

Type of right of way:

N Fire Behavior

0 Feet — Elevation

Relative position on slope:

Aspect:

0 Feet — Flame Length

0 Chains per Hour — Rate of spread

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002773	0

NFIRS Remarks

Remarks

E443 RESPONDED TO REPORT OF BRUSH FIRE... UTL CANCELLED BY E36 ---------- ---------- On 05/09/2008 at 17:29:12 dispatched To N INDIAN CANYON DR & INTERSTATE 10 /Palm Springs, CA 92262. The location is a Highway or divided highway. The incident was determined to be a(n) No Incident found on arrival at dispatch address. 17:40:00 arrived on scene. The following actions were performed on scene: Investigate FD personnel responded to the area of Indian Ave and I10. RE stated fire was on the WB I10 on ramp. E36 arrived on-scene and was UTL an incident. A second report by a caller put the fire in the same general area. E443 assisted /attempted to locate but found nothing. All units were cancelled and returned. Units responding were: Unit BC4420 responded. Unit E-443 responded. Unit MS-441 responded. Unit T-441 responded. Automatic aid CDF Riverside 17:47:00 all units back in service.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
09034	Michael Wills	CP		05/10/2008

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
09034	Michael Wills	CP		05/10/2008

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002773	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: BC442 Type: 92	Dispatch: 05/09/2008 17:29 Arrival: Clear: 05/09/2008 17:39	X	1	1 - Suppress	
2 ID: MS-44 Type: 76	Dispatch: 05/09/2008 17:29 Arrival: Clear: 05/09/2008 17:39	X	2	1 - Suppress	
3 ID: T-441 Type: 13	Dispatch: 05/09/2008 17:29 Arrival: Clear: 05/09/2008 17:39	X	3	1 - Suppress	
4 ID: E-443 Type: 11	Dispatch: 05/09/2008 17:29 Arrival: 05/09/2008 17:40 Clear: 05/09/2008 17:47	X	3	1 - Suppress	
5 ID: Type:	Dispatch: Arrival: Clear:				
6 ID: Type:	Dispatch: Arrival: Clear:				
7 ID: Type:	Dispatch: Arrival: Clear:				
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

A | FDID: 33065 | State: CA | Incident Date (MM DD YYYY): 05/09/2008 | Station: 443 | Incident Number: 0002773 | Exposure: 0 | NFIRS - 10 Personnel

B Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID: BC442 Type: 92	Dispatch 05/09/2008 17:29:12 Arrival Clear 05/09/2008 17:39:13	Sent X	1 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
08700	Wang, Sang Pao	BC	X				

2 ID: MS-44 Type: 76	Dispatch 05/09/2008 17:29:12 Arrival Clear 05/09/2008 17:39:13	Sent X	2 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
15520	Brown, Dustin	FFP	X				
15697	Josephson, Ashley	PR	X				

3 ID: T-441 Type: 13	Dispatch 05/09/2008 17:29:12 Arrival Clear 05/09/2008 17:39:13	Sent X	3 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
15390	Blaseck, Chad	ENG	X				
10372	Ferguson, Rande	CP	X				
15100	Line, Michael	ENG	X				

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33065	CA	05/09/2008	443	0002773	0

NFIRS - 10
Personnel

B

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID E-443 Type 11	Dispatch 05/09/2008 17:29:12 Arrival 05/09/2008 17:40 Clear 05/09/2008 17:47	Sent X	3 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
10925	Gunkel, Nathan	EPM	X				
15699	Kaimer, Jeff	PR	X				
09034	Wills, Michael	CP	X				

2 ID Type	Dispatch Arrival Clear	Sent	#		

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

3 ID Type	Dispatch Arrival Clear	Sent	#		

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33040	CA	01/23/2009	1	0900762	0

NFIRS - 1 Basic

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
2 - Intersection		North	GILBERT	Street	

Apt./Suite/Room	City	State	Zip Code
	HEMET	CA	92543

Census Tract:

Cross street or directions, as applicable: FLORIDA

C Incident Type

162 - Outside equipment

D Aid Given or Received

Their FDID	Their State	Their Incident Number

Type Aid Given or Recieved: 2 - Automatic aid received

E1 Dates & Times (Midnight is 0000)

	Month Day Year	Hour Min Seconds
Alarm	01/23/2009	20:16:58
Arrival	01/23/2009	20:20:32
Controlled		
Last Unit Cleared	01/23/2009	23:56:06

E2 Shifts & Alarms (Local Option)

Shift or platoon	Alarms	District
A		526

E3 Special Studies (Local Option)

Special Study ID#	Special Study Value

F Actions Taken

81 - Incident command
41 - Identify, analyze hazardous materials
401 - Code Not Found

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	2	4
EMS	0	0
Other	1	3

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 100000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 100000
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector: U - Unknown

H3 Hazardous Materials Release: 0 - Special hazmat actions required

I Mixed Use Property:

J Property Use: 615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name [redacted] | MI | Last Name [redacted] | Suffix

Number [redacted] | Prefix | Street or Highway [redacted] | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City [redacted]

State [redacted] | Zip Code [redacted] | Business name (if applicable) | Area Code [redacted] | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33040	CA	01/23/2009	1	0900762	0

NFIRS - 1S
Supplemental

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name: Bradly | MI | Last Name: Payne | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number: 9513230258

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33040	CA	01/23/2009	1	0900762	0

B Property Details

B1 Estimated number of residential living units in building of origin: 0

Not Residential: Y

B2 Number of buildings involved:

B3 Acres burned (outside fires):

C On-Site Materials or Products

On-site materials: NNN - None

On-site materials use:

D Ignition

D1 Area of fire origin: 20 - Function area, other

D2 Heat source: 13 - Arcing

D3 Item first ignited: 60 - Liquids, piping, filter

D4 Type of material first ignited: 20 - Flammable or combustibl

Confined to object of origin:

E1 Cause of Ignition

Cause of ignition: 2 - Unintentional

E2 Factors Contributing To Ignition

Factors contributing to ignition: 34 - Unspecified short-circuit arc

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved:

Gender of person involved:

F1 Equipment Involved In Ignition

Equipment Involved: 221 - Transformer, distribution

Brand:

Model:

Serial #:

Year:

F2 Equipment Power

Equipment power source: 11 - Electrical line vo

F3 Equipment Portability

Equipment portability: 2 - Stationary

G Fire Suppression Factors

Fire suppression factors:

H1 Mobile Property Involved

Mobile property involved:

H2 Mobile Property Type & Make

Mobile property type:

Mobile property make:

Mobile property model:

Year:

License plate number:

State:

VIN number:

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33040	CA	01/23/2009	1	0900762	0

NFIRS Remarks

Remarks

TITLE:CAD Narrative [CRLF]V562/LIGHTS NOW FLASHING AT FL/STATE.,NUMEROUS RPTS OF SOME SORT OF EXPLOSION IN AREA.,SOME RP'S ADV'ING FLORIDA/GILRERT,MENLO/PALM,I/E1 DIVERTING TO SANDERSON/FLORIDA,I/B1 AT SENE TRANSFORMER OR SOME SUBSTATION EXPLOSION,CONTINUE THE ALARM ASSIGNMENT,FLOR[CRLF][CRLF]TITLE:E4 [CRLF]Upon arrival of the Florida Incident, E4 personell found a constant flow of transformer oil and rain water, draining down the gutter of the eastbound lane of Florida Ave and the northbound gutter of Gilbert. Both streets were closed by PD. E4 immediatly notified the BC and requested HM4, County HM and County Health. The source was determined to be from a 230 gallon transformer that had blown from a SCE sub station. Immediate efforts were made to dam and dike the flow, which had gone several city blocks and had made it to Florida and Palm. After the arrival of SCE and tests by County HM, it was determined that the oil was not the PCB based oil. SCE cooridinated the clean up of the oil from the streets and the ground contamination around the sub station property. On call city yard provided lane eastbound lane closure for the Double Barrel Cleanup Company.[CRLF]TITLE:E2 [CRLF]E2 brought the HAZMAT truck/trailer to the scene and the was released.[CRLF]TITLE:E3 [CRLF]E#3 personnel provided retention dikes for contaminated runoff from transformer fire. Afterward we were released to respond to an medical emergency.[CRLF]TITLE:Battalion One [CRLF]While enroute to a reported structure fire, a very large explosion was seen near the intersection of Florida Ave and Gilbert. When B1 arrived at seen it was determined that the fire was due to a ruptured, 350 gallon transformer which had exploded. Traffic was closed on Florida, at State all the way west to Palm. Gilbert was closed at Acacia as well as at Florida. County Haz Mat was requested along with County Environmental Health. The concern was that the oil from the transformer could have been toxic. At the close of the incident the oil released was determined to be minimally toxic and SOCAL Edison utilized their private clean up crews to mitigate the remaining hazards. A small fire was extinguished about one half hour after the explosion, due to inability to isolate the power. Environmental Health remained on scene after all fire units cleared. City crews were called out to cone off Florida Ave while the clean up crews worked.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
3794	John Muhr	BC	1	01/27/2009

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
3794	John Muhr	BC	1	01/27/2009

NFIRS - 7 HazMat

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure	Haz No
33040	CA	01/23/2009	1	0900762	0	1

B HazMat ID

UN Number | DOT Hazard Classification | CAS Registration Number

Chemical name

C1 Container Type

Container Type

C2 Estimated Container Capacity

Capacity: by volume or weight

C3 Units: Capacity

Units: Capacity

D1 Estimated Amount Released

Amount released: by volume or weight

D2 Units: Released

Units: Released

E1 Physical State When Released

Physical state when released

E2 Released Into

Released into

F1 Released From:

Released from:

Story of release

F2 Population Density

Population density

G1 Area Affected

1 - Square — Unit of measure

500

Area affected

G2 Area Evacuated

Unit of measure

Area evacuated

G3 People Evacuated

G4 Estimated Number of Buildings Evacuated

H HazMat Actions Taken

HazMat actions taken

I If fire or explosion is involved with a release, which occurred first?

Release/fire sequence

J Cause of Release

2 - Unintentional rel

Cause of release

K Factors Contributing to Release

55 - Other electrical failure

Factors contributing to release

L Factors Affecting Mitigation

Factors affecting mitigation

M Equipment Involved In Release

221 - Transformer, distributid

Equipment involved in release

Brand

Model

Serial Number

Year

N Mobile Property Involved in Release

Mobile property type

Mobile property make

Model | Year

License Plate Number | State

DOT Number/ ICC Number

O HazMat Disposition

7 - Released to private a

HazMat disposition

P HazMat Civilian Casualties

Deaths | Injuries

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33040	CA	01/23/2009	1	0900762	0

NFIRS - 11
Arson

B Agency Referred To

Street Address:
Their Case Number: 0
Agency Name:
City:
Their ORI:
Agency Phone Number:
State:
Zip Code:
Their Federal Identifier (FID):
Their FDID:

C Case Status

Case Status: 2 - Investigation closed

D Availability of Material First Ignited

Availability of Material First Ignited:

E Suspected Motivation Factors

Suspected Motivation Factors:

F Apparent Group Involvement

Apparent Group Involvement:

G1 Entry Method

Entry Method:

H Incendiary Devices

CONTAINER
Container:

IGNITION/DELAY DEVICE
Ignition/Delay Device:

G2 Extent of Fire Involvement on Arrival

Extent of Fire Involvement:

FUEL
Fuel:

I Other Investigative Information

Other Investigative information:

J Property Ownership

Property Owenership:

K Initial Observations

Initial Observations:

L Laboratory Used

Laboratory Used:

M1 Subject Number

Subject Number: 1

M3 Gender

Gender:

M6 Family Type

Family Type:

M8 Disposition of Person Under 18

Disposition of Person Under 18:

M2 Age or Date of Birth

Age (in years):
OR
Month Day Year:

M4 Race

Race:

M5 Ethnicity

Ethnicity:

M7 Motivation/Risk Factors

Motivation/Risk Factors:

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
33040	CA	01/23/2009	1	0900762	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: E4 Type: 11	Dispatch: 01/23/2009 20:19 Arrival: 01/23/2009 20:20 Clear: 01/23/2009 23:56	X	3	1 - Suppress	
2 ID: B1 Type: 92	Dispatch: 01/23/2009 20:17 Arrival: 01/23/2009 20:20 Clear: 01/23/2009 23:43	X	1	1 - Suppress	81
3 ID: E2 Type: 11	Dispatch: 01/23/2009 20:44 Arrival: 01/23/2009 20:53 Clear: 01/23/2009 21:30	X	3	0 - Other	
4 ID: Type:	Dispatch: Arrival: Clear:				
5 ID: Type:	Dispatch: Arrival: Clear:				
6 ID: Type:	Dispatch: Arrival: Clear:				
7 ID: Type:	Dispatch: Arrival: Clear:				
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

A	FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure	NFIRS - 10 Personnel
	33040	CA	01/23/2009	1	0900762	0	

B Apparatus or Resource | Dates and Times (Month Day Year Hours/Mins) | Sent | Number of People | Use (Check ONE box for each apparatus to indicate its main use at the incident.) | Actions Taken (List up to 4 actions for each apparatus and each personnel.)

#	ID	Type	Dispatch	Arrival	Clear	Sent	Number of People	Use	Actions Taken
1	E4	11	01/23/2009 20:19:03	01/23/2009 20:20:32	01/23/2009 23:56:06	X	3	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend	Action Taken	Action Taken	Action Taken	Action Taken
8141	Swain, David	ENG	X				
10171	Sampson, Ryan	FF	X				
8379	Parkin, David	ENG	X				

#	ID	Type	Dispatch	Arrival	Clear	Sent	Number of People	Use	Actions Taken
2	B1	92	01/23/2009 20:17:05	01/23/2009 20:20:42	01/23/2009 23:43:10	X	1	1 - Suppressi	81

Personnel ID	Name	Rank or Grade	Attend	Action Taken	Action Taken	Action Taken	Action Taken
3794	Muhr, John	BC	X				

#	ID	Type	Dispatch	Arrival	Clear	Sent	Number of People	Use	Actions Taken
3	E2	11	01/23/2009 20:44:02	01/23/2009 20:53:03	01/23/2009 21:30:26	X	3	0 - Other	

Personnel ID	Name	Rank or Grade	Attend	Action Taken	Action Taken	Action Taken	Action Taken
8388	Lindberg, David	ENG	X				
10214	Durbin, Scott	FF	X				
6637	Barnes, William	CAPT	X				

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
24035	CA	01/16/2010	MMU	725	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
1 - Street addres	00000030	West	SANDY MUSH	Road	

Apt./Suite/Room	City	State	Zip Code
	EL NIDO	CA	95317

Census Tract:

Cross street or directions, as applicable: 7000 BLK HWY 59 S, 8000 BLK FR

C Incident Type

Incident Type: 100 - Fire, other

D Aid Given or Received

Their FDID	Their State	Their Incident Number

Type Aid Given or Recieved: N - None

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	01	16	2010	04	36	
Arrival	01	16	2010	04	49	
Controlled	01	16	2010	06	36	
Last Unit Cleared	01	16	2010	06	48	

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
A		18

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

74 - Provide apparatus

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	5	5
EMS	0	0
Other	0	3

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 60000
Contents	$ 60000

PRE-INCIDENT VALUE: Optional

Property	$
Contents	$

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
24035	CA	01/16/2010	MMU	725	0

B Property Details

B1 Estimated number of residential living units in building of origin: 0 — Not Residential: Y

B2 Number of buildings involved:

B3 Acres burned (outside fires): 0

C On-Site Materials or Products

On-site materials: 962 - Recyclable materials

On-site materials use: 2 - Processing or manufacturing

D Ignition

D1 Area of fire origin: 30 - Technical processing ar

D2 Heat source: UU - Undetermined

D3 Item first ignited: UU - Undetermined

D4 Type of material first ignited:

Confined to object of origin:

E1 Cause of Ignition

Cause of ignition: 3 - Failure of equipment or heat

E2 Factors Contributing To Ignition

Factors contributing to ignition: NN - None

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved:

Gender of person involved:

F1 Equipment Involved In Ignition

Equipment Involved: NNN - None

Brand:

Model:

Serial #:

Year:

F2 Equipment Power

Equipment power source:

F3 Equipment Portability

Equipment portability:

G Fire Suppression Factors

NNN - None

Fire suppression factors

H1 Mobile Property Involved

N - None

Mobile property involved

H2 Mobile Property Type & Make

Mobile property type:

Mobile property make:

Mobile property model:

Year:

License plate number:

State:

VIN number:

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
24035	CA	01/16/2010	MMU	725	0

NFIRS Remarks

Remarks

Fin Type = FSC

M

Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
2865	DANNY RHOAN	FAE	STA 83	01/16/2010

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
2865	DANNY RHOAN	FAE	STA 83	01/16/2010

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	08/04/2008	K23	0824374	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
1 - Street addres	26255		33	Highway	

Apt./Suite/Room	City	State	Zip Code
	KERN COUNTY	CA	93224

Census Tract

Cross street or directions, as applicable

C Incident Type

162 - Outside equipment

D Aid Given or Received

Their FDID	Their State	Their Incident Number

N - None

Type Aid Given or Recieved

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/04/2008			13:02:01		
Arrival	08/04/2008			13:14:02		
Controlled						
Last Unit Cleared	08/04/2008			17:44:32		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
C	1	

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

112 - Code Not Found

Actions Taken

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	4	13
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$	750000
Contents	$	0

PRE-INCIDENT VALUE: Optional

Property	$	750000
Contents	$	0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

U - Unknown

H3 Hazardous Materials Release

I Mixed Use Property

J Property Use

615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	08/04/2008	K23	0824374	0

B Property Details

B1 Estimated number of residential living units in building of origin: 0

Not Residential: Y

B2 Number of buildings involved:

B3 Acres burned (outside fires):

C On-Site Materials or Products

On-site materials: NNN - None

On-site materials use:

D Ignition

D1 Area of fire origin: 63 - Switchgear area, transf

D2 Heat source: 10 - Heat from powered equip

D3 Item first ignited: 60 - Liquids, piping, filter

D4 Type of material first ignited: 20 - Flammable or combustibl

Confined to object of origin:

E1 Cause of Ignition

Cause of ignition: 3 - Failure of equipment or heat

E2 Factors Contributing To Ignition

Factors contributing to ignition: UU - Undetermined

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved:

Gender of person involved:

F1 Equipment Involved In Ignition

Equipment Involved: 200 - Electrical distribution, p

Brand:

Model:

Serial #:

Year:

F2 Equipment Power

Equipment power source: 52 - Steam

F3 Equipment Portability

Equipment portability: 2 - Stationary

G Fire Suppression Factors

400 - Delays, other

Fire suppression factors

H1 Mobile Property Involved

N - None

Mobile property involved

H2 Mobile Property Type & Make

Mobile property type:

Mobile property make:

Mobile property model:

Year:

License plate number:

State:

VIN number:

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	08/04/2008	K23	0824374	0

NFIRS Remarks

Remarks

TITLE:CO21 [CRLF]STAGED AND RELEASED[CRLF]TITLE:CAD Narrative [CRLF]08052074 E Type: UNK UNKNOWN Type Fire Sub Type:
Disp:[CRLF]COMMENTS:[CRLF]~KEYMAP: 137911 HANGUP/ REPORTED FIRE TO KCSOUNK TYPE OF FIRELINE BUSY TO BUSINESSACCESS OFF SHALE RDNOTHING SHOWING ALOMOST AT SCNDUST DEVIL POSSIBLYSEVERAL DUST DEVILDUPLICATE EVENT:LOCATION = 26255 33 HWY KC, CROSS STREET 1 = SHALE RD RANDALLRD,CROSS STREET 2 = RANDALL RD, CALLER NAME = SUNRISE POWER CO, CALLER PHNUMBER = (661) 768-4852, CALL SOURCE = ANI/ALIEND OF DUPLICATE EVENT DATACO23 WITH RP NOWFIRE IN SWITCH YARD.....12857 SUNRISE POWER RDCO23 TRANSFORMER ON FIREKEEP EVERTHING COMINGKB2 HAVE OTHERS STAGE AT ENTRANCERP IS GETTING POWER SHUT OFFFIRE IS STAYING WITH ONE TRANSFORMER.TRK STAGED @ 1319E/P21 STAGED @ 1319..IC TO CO24 LINES ARE STILL ENBERGIZED IT WILL BE A WHILE WATCH FOR TRAFFIC ANDSUCH.IC RELEASE 21 EQUIPMENT.ICREP FROM LA PALOMA 97 - WORKING ON SHUTTING DOWN FIREFACILITY DIRECTOR 97KB2 - ALL EQUIP COMPLETE[CRLF][CRLF]TITLE:Co23 [CRLF]Received a report of an unknown type fire. On arrival, Co 23 met with the facility manager of the Sunrise Power Company who pointed out that a fire was in the remaining tower of what was a "Position Transfer Switch" located in the switching yard. The insulator had exploded leaving the Dielectric Oil inside burning. Approximately 85 gallons of the burning oil was contained to the tower in a 4' x 4' holding container. Fire personnel stood by while a plan was formulated and the area locked and tagged out for safe entry for everyone. The facility staff attempted to extinguish the fire by use of dry chemical extinguishers. After several attempts were made, the fire remained burning. Fire personnel utilized a 3% foam to extinguish the fire and then cooled the sides of the container with water.[CRLF][CRLF]Note: The actual address of the incident is 12857 Sunrise Power Road. ECC advised that the CAD system did not have that address in it and the reporting location remained the location on the report.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
K0391	James Glaser	4579 C	1	08/07/2008
K0989	Roy Heimiller	4590	1	08/07/2008

Member making report ID

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	08/04/2008	K23	0824374	0

NFIRS - 9
Apparatus or Resources

B Apparatus or Resource (Use codes listed below)	Dates and Times (Month Day Year Hours/Mins)	Sent (X)	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken
1 ID: E22 Type: 11	Dispatch: 08/04/2008 13:03 Arrival: Clear: 08/04/2008 13:05	X	2	1 - Suppress	
2 ID: E23 Type: 11	Dispatch: 08/04/2008 13:03 Arrival: 08/04/2008 13:14 Clear: 08/04/2008 17:44	X	2	1 - Suppress	
3 ID: KB2 Type: 92	Dispatch: 08/04/2008 13:03 Arrival: 08/04/2008 13:17 Clear: 08/04/2008 17:44	X	1	1 - Suppress	
4 ID: E24 Type: 11	Dispatch: 08/04/2008 13:04 Arrival: 08/04/2008 13:17 Clear: 08/04/2008 17:44	X	2	1 - Suppress	
5 ID: TK21 Type: 12	Dispatch: 08/04/2008 13:03 Arrival: 08/04/2008 13:18 Clear: 08/04/2008 13:42	X	3	1 - Suppress	
6 ID: E21 Type: 11	Dispatch: 08/04/2008 13:03 Arrival: 08/04/2008 13:19 Clear: 08/04/2008 13:42	X	3	1 - Suppress	
7 ID: P21 Type: 16	Dispatch: 08/04/2008 13:07 Arrival: 08/04/2008 13:19 Clear: 08/04/2008 13:42	X	0	1 - Suppress	
8 ID: Type:	Dispatch: Arrival: Clear:				
9 ID: Type:	Dispatch: Arrival: Clear:				
10 ID: Type:	Dispatch: Arrival: Clear:				
11 ID: Type:	Dispatch: Arrival: Clear:				
12 ID: Type:	Dispatch: Arrival: Clear:				
13 ID: Type:	Dispatch: Arrival: Clear:				

NFIRS - 10 Personnel

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
15010	CA	08/04/2008	K23	0824374	0

B

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID E22 Type 11	Dispatch 08/04/2008 13:03:03 Arrival Clear 08/04/2008 13:05:01	X	2 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0565	Vradenburg, Robert	4594 C	X				
K0854	Murillo, Richard	4639	X				

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
2 ID E23 Type 11	Dispatch 08/04/2008 13:03:03 Arrival 08/04/2008 13:14:02 Clear 08/04/2008 17:44:32	X	2 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0884	Moore, Ryan	4595	X				
K0989	Heimiller, Roy	4590	X				

Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
3 ID KB2 Type 92	Dispatch 08/04/2008 13:03:03 Arrival 08/04/2008 13:17:01 Clear 08/04/2008 17:44:29	X	1 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0391	Glaser, James	4579 C	X				

A | 15010 (FDID) | CA (State) | 08/04/2008 (MM DD YYYY Incident Date) | K23 (Station) | 0824374 (Incident Number) | 0 (Exposure) | NFIRS - 10 Personnel

B Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID E24 / Type 11	Dispatch 08/04/2008 13:04:54 Arrival 08/04/2008 13:17:04 Clear 08/04/2008 17:44:30	Sent X	2 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0457	Fogerlund, Ray	4595	X				
K0972	Whisnand, Seth	4639	X				

2 ID TK21 / Type 12	Dispatch 08/04/2008 13:03:04 Arrival 08/04/2008 13:18:53 Clear 08/04/2008 13:42:32	Sent X	3 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0573	Printup, Donald	4590	X				
K0811	Calhoun, James	4594 C	X				
K0833	Allegranza, Dustin	4639	X				

3 ID E21 / Type 11	Dispatch 08/04/2008 13:03:03 Arrival 08/04/2008 13:19:22 Clear 08/04/2008 13:42:31	Sent X	3 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken
K0437	Finocchiaro, Guy	4589 C	X				
K0190	Whitley, Theodore	4594 C	X				
K1006	Tisinger, Ryan	4639	X				

A | FDID: 15010 | State: CA | Incident Date (MM DD YYYY): 08/04/2008 | Station: K23 | Incident Number: 0824374 | Exposure: 0 | NFIRS - 10 Personnel

B Apparatus or Resource	Dates and Times (Month Day Year Hours/Mins)	Sent [X]	Number of People	Use (Check ONE box for each apparatus to indicate its main use at the incident.)	Actions Taken (List up to 4 actions for each apparatus and each personnel.)
1 ID: P21 Type: 16	Dispatch 08/04/2008 13:07:29 Arrival 08/04/2008 13:19:22 Clear 08/04/2008 13:42:32	X	0 #	1 - Suppressi	

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

2 ID: Type:	Dispatch Arrival Clear	Sent	#		

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

3 ID: Type:	Dispatch Arrival Clear	Sent	#		

Personnel ID	Name	Rank or Grade	Attend [X]	Action Taken	Action Taken	Action Taken	Action Taken

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	09/28/2009	SCU	4092	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
2 - Intersection			Altamont	Road	

Apt./Suite/Room	City	State	Zip Code
	ALTAMONT	CA	94550

Census Tract:

Cross street or directions, as applicable: Grant Line Rd.

C Incident Type

143 - Grass fire

D Aid Given or Received

Their FDID	Their State	Their Incident Number

2 - Automatic aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	09	28	2009	21	32	
Arrival	09	28	2009	21	50	
Controlled	09	29	2009	01	49	
Last Unit Cleared	09	29	2009	01	49	

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
		161

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

14 - Contain fire (wildland)

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	10	27
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 400
Contents	$ 400

PRE-INCIDENT VALUE: Optional

Property	$
Contents	$

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

N - None

I Mixed Use Property

65 - Farm use

J Property Use

610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	09/28/2009	SCU	4092	0

B Alternate Location Specification

Latitude | Longitude

OR

Township | Range

Section | Subsection | Meridian

C Area Type

4 - Urban -wildland interface

Area type

D1 Wildland Fire Cause

2 - Equipment

Wildland fire cause

D2 Human Factors Contributing To Ignition

N - None

Human factors contributing to ignition

D3 Factors Contributing To Ignition

25 - Worn out

Factors contributing to ignition

D4 Fire Suppression Factors

732 - Wind, including hurricanes or tornadoes

Fire suppression factors

E Heat Source

97 - Multiple heat sources

F Mobile Property Type

G Equipment Involved in Ignition

H Weather Information

NFDRS Weather Station ID

7 - West

Wind Direction

11 - Scattered clouds, 1/10 to 5/

Weather Type

20 Wind speed MPH

65 F° Air Temperature

51 % Relative Humidity

% Fuel Moisture

3 - High fire danger

Fire Danger Rating

I1 Number of Buildings Ignited

0

Number of buildings that were ignited in Wildland fire

I2 Number of Buildings Threatened

3

Number of buildings that were threatened by Wildland fire but were not involved

I3 Total Acres Burned

4.0

I4 Primary Crops Burned

Crops Burned

J Property Management

Ownership

% Total Acres Burned

	%
Undetermined	
Tax paying	
Non tax paying	
City, town, village, local	
County or parish	
State or province	
Federal (Federal Agency Code)	
Foreign	
Military	
Other	

K NFDRS Fuel Model at Origin

Fuel Model

L1 Person Responsible For Fire

Person Responsible for Fire

L2 Gender of Person Involved

Gender of person involved

L3 Age or Date of Birth

Age in Years

OR

Date of Birth (Month Day Year)

L4 Activity of Person

Activity of Person Involved

M Right of Way

Feet — Horizontal distance from right of way

Type of right of way

N Fire Behavior

344 Feet

Elevation

1 - Lower Slope

Relative position on slope

2 - East

Aspect

2 Feet

Flame Length

Chains per Hour

Rate of spread

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	09/28/2009	SCU	4092	0

NFIRS Remarks

Remarks

Fin Type = FWL

M

Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
	Deanna Hall	Fire Capta		09/28/2009

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
	Deanna Hall	Fire Capta		09/28/2009

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	08/27/2008	SCU	4203	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
4 - Rear of	00003200		2800 DYER	Road	

Apt./Suite/Room	City	State	Zip Code
GATE #7	ALTAMONT	CA	94551

Census Tract:

Cross street or directions, as applicable: 4WD ROAD, 4WD ROAD

C Incident Type

143 - Grass fire

D Aid Given or Received

Their FDID	Their State	Their Incident Number

Type Aid Given or Recieved: 2 - Automatic aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	08/27/2008			18:18		
Arrival	08/27/2008			18:37		
Controlled	08/27/2008			18:58		
Last Unit Cleared	08/27/2008			19:19		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
		161

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

11 - Extinguish

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	3	12
EMS	0	0
Other	0	0

[N] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 0
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$ 0
Contents	$ 0

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

I Mixed Use Property

65 - Farm use

J Property Use

610 - Energy production plant, other

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

NFIRS - 8 Wildland Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	08/27/2008	SCU	4203	0

B Alternate Location Specification

Latitude: | Longitude:

OR

Township: | Range:

Section: | Subsection: | Meridian:

C Area Type

Area type: 1 - Rural, including farms >5

D1 Wildland Fire Cause

Wildland fire cause: 2 - Equipment

D2 Human Factors Contributing To Ignition

Human factors contributing to ignition: N - None

D3 Factors Contributing To Ignition

Factors contributing to ignition: 20 - Mechanical failure, malfunction, other

D4 Fire Suppression Factors

Fire suppression factors: 711 - Drought or low fuel moisture

E Heat Source

UU - Undetermined

F Mobile Property Type

G Equipment Involved in Ignition

224 - Generator

H Weather Information

NFDRS Weather Station ID:

Wind Direction: 6 - Southwest

Weather Type: 10 - Clear, less than 1/10 cloud

Wind speed MPH	Air Temperature	Relative Humidity
15	92 F°	21 %

Fuel Moisture: %

Fire Danger Rating: 5 - Extreme fire danger

I1 Number of Buildings Ignited

0

Number of buildings that were ignited in Wildland fire

I2 Number of Buildings Threatened

0

Number of buildings that were threatened by Wildland fire but were not involved

I3 Total Acres Burned

0.1

I4 Primary Crops Burned

Crops Burned

J Property Management

Ownership: 1 - Tax paying

	% Total Acres Burned
Undetermined	%
Tax paying	100 %
Non tax paying	%
City, town, village, local	%
County or parish	%
State or province	%
Federal (Federal Agency Code)	%
Foreign	%
Military	%
Other	%

K NFDRS Fuel Model at Origin

Fuel Model: 01 - A: Annual Grasses.

L1 Person Responsible For Fire

Person Responsible for Fire:

L2 Gender of Person Involved

Gender of person involved:

L3 Age or Date of Birth

Age in Years: | OR | Date of Birth (Month Day Year):

L4 Activity of Person

Activity of Person Involved:

M Right of Way

Feet — Horizontal distance from right of way

Type of right of way:

N Fire Behavior

925 Feet — Elevation

4 - Ridge Top — Relative position on slope

2 - East — Aspect

1 Feet — Flame Length

1 Chains per Hour — Rate of spread

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
01555	CA	08/27/2008	SCU	4203	0

NFIRS Remarks

Remarks

Fin Type = FWL E-1664 WAS DISPATCHED TO A VEGETATION FIRE OFF DYER RD. PRIOR TO ARE ARRIVAL TWO ALCO UNITS HAD EXTINGUSHED THE LARGE SPOT THAT WAS HELD BY A DISK LINE.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
1617	CRAIG COLLINS	FAE	SUNOL	08/27/2008

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
1617	CRAIG COLLINS	FAE	SUNOL	08/27/2008

NFIRS - 1 Basic

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
45086	CA	05/15/2010	SHU	3188	0

B Location

Address Type	Number/Milepost	Prefix	Street or Highway	Street Type	Suffix
1 - Street addres	41402		HWY 299	Highway	East

Apt./Suite/Room	City	State	Zip Code
	CASSEL	CA	96018

Census Tract:

Cross street or directions, as applicable:

C Incident Type

100 - Fire, other

D Aid Given or Received

Their FDID	Their State	Their Incident Number

2 - Automatic aid received

E1 Dates & Times

Midnight is 0000

	Month	Day	Year	Hour	Min	Seconds
Alarm	05/15/2010			00:37		
Arrival	05/15/2010			00:51		
Controlled						
Last Unit Cleared	05/15/2010			02:14		

E2 Shifts & Alarms

Local Option

Shift or platoon	Alarms	District
		1

E3 Special Studies

Local Option

Special Study ID#	Special Study Value

F Actions Taken

00 - Action taken, other

G1 Resources

[N] Check this box and skip this section if an Apparatus or Personnel form is used.

	Apparatus	Personnel
Suppression	5	10
EMS	0	0
Other	2	2

[Y] Check box if resource counts include aid received resources.

G2 Estimated Dollar Losses & Values

LOSSES: Required for all fires if known. Optional for non fires.

Property	$ 1000000
Contents	$ 0

PRE-INCIDENT VALUE: Optional

Property	$
Contents	$

H1 Casualties

	Deaths	Injuries
Fire Service	0	0
Civilian	0	0

H2 Detector

H3 Hazardous Materials Release

N - None

I Mixed Use Property

J Property Use

615 - Electric generating plant

K1 Person/Entity Involved

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Business name (if applicable) | Area Code | Phone Number

K2 Owner

Mr., Ms., Mrs. | First Name | MI | Last Name | Suffix

Number | Prefix | Street or Highway | Street Type | Suffix

Post Office Box | Apt./Suite/Room | City

State | Zip Code | Pacific Gas & Eletric | Area Code | Phone Number

NFIRS - 2
Fire

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
45086	CA	05/15/2010	SHU	3188	0

B Property Details

B1 0 — Estimated number of residential living units in building of origin
Y — Not Residential

B2 — Number of buildings involved

B3 0 — Acres burned (outside fires)

C On-Site Materials or Products

On-site materials: NNN - None

On-site materials use: N - None

D Ignition

D1 63 - Switchgear area, transf — Area of fire origin

D2 00 - Heat source: other — Heat source

D3 UU - Undetermined — Item first ignited

D4 — Type of material first ignited

1 - Fire Spread was — Confined to object of origin

E1 Cause of Ignition

3 - Failure of equipment or heat — Cause of ignition

E2 Factors Contributing To Ignition

NN - None — Factors contributing to ignition

E3 Human Factors Contributing To Ignition

N - None

Estimated age of person involved

Gender of person involved

F1 Equipment Involved In Ignition

221 - Transformer, distribution — Equipment Involved

Brand

Model

Serial #

Year

F2 Equipment Power

11 - Electrical line vo — Equipment power source

F3 Equipment Portability

2 - Stationary — Equipment portability

G Fire Suppression Factors

NNN - None — Fire suppression factors

H1 Mobile Property Involved

N - None — Mobile property involved

H2 Mobile Property Type & Make

Mobile property type

Mobile property make

Mobile property model

Year

License plate number

State

VIN number

Local Use

A

FDID	State	Incident Date (MM DD YYYY)	Station	Incident Number	Exposure
45086	CA	05/15/2010	SHU	3188	0

NFIRS Remarks

Remarks

Fin Type = FSC Transformer caught on fire at PG&E Transfer station, Pit One Powerhouse. Transformer destroyed at 1 million dollar damage. Person making report did not respond to fire.

M Authorization

Officer in charge ID	Signature	Position or rank	Assignment	Month Day Year
	Training 1	Volunteer	Fall River	05/15/2010

Member making report ID	Signature	Position or rank	Assignment	Month Day Year
	Roy Billings	Captain	Station 22	05/15/2010