

## TurkeyPointCEm Resource

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**From:** Anna Louise Fulks [alfulks@earthlink.net]  
**Sent:** Friday, May 22, 2015 12:56 PM  
**To:** TurkeyPointCOLEIS Resource  
**Subject:** Nuclear plants

**Good afternoon Ladies and Gentlemen:**

**Attached is a list of Nuclear power station accidents and incidents with the IAEA description for your information and before any approval is given for two new nuclear reactors.**

**Comes now the NRC drafting two new reactors located off Biscayne and Everglades National Parks. . . what are they thinking? NRC is planning three new sets of power lines to run across and through the eastern section of Everglades National Park. I need not remind you of the 1992 nuclear reactors at Turkey Point which took a direct hit from Hurricane Andrew. . . READ THE DATA.**

**I would suggest to you that Florida, the Sunshine State, follow the lead of Spain and Germany whose solar energy is world renown and they are not located in a subtropical country where there is an abundance of sunshine. I would also be so bold to suggest to you that you contact Dr. Harold R. Wanless, Professor and Chair, Department of Geological Sciences at the University of Miami regarding the increase sea level rise in our State.**

**The NRC. . . including Florida Power and Light. . . need to return to the draft board to come up with a better solution for Florida's energy needs. . a clue would also be the Biscayne Aquifer with its surrounding limestone which is important to our drinking water. Nuclear reactors are not the answer especially when there is a liability as noted by the International Atomic Energy Authority Data Summary listed below.**

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## **International Atomic Energy Authority**

### **Data summary**

Nuclear power station accidents and incidents

| <b>Year</b> | <b>Incident</b> | <b>INES level</b> | <b>Country</b> | <b>IAEA description</b>                               |
|-------------|-----------------|-------------------|----------------|---|
| 2011        | Fukushima       | 5                 | Japan          | Reactor shutdown after the 2011 Sendai earthquake and |

Nuclear power station accidents and incidents

| <b>Year</b> | <b>Incident</b>        | <b>INES level</b> | <b>Country</b> | <b>IAEA description</b>  |
|-------------|------------------------|-------------------|----------------|--|
| 2011        | Onagawa                |                   | Japan          | tsunami; failure of emergency cooling caused an explosion<br>Reactor shutdown after the 2011 Sendai earthquake and tsunami caused a fire |
| 2006        | Fleurus                | 4                 | Belgium        | Severe health effects for a worker at a commercial irradiation facility as a result of high doses of radiation                           |
| 2006        | Forsmark               | 2                 | Sweden         | Degraded safety functions for common cause failure in the emergency power supply system at nuclear power plant                           |
| 2006        | Erwin                  |                   | US             | Thirty-five litres of a highly enriched uranium solution leaked during transfer  |
| 2005        | Sellafield             | 3                 | UK             | Release of large quantity of radioactive material, contained within the installation   |
| 2005        | Atucha                 | 2                 | Argentina      | Overexposure of a worker at a power reactor exceeding the annual limit   |
| 2005        | Braidwood              |                   | US             | Nuclear material leak  |
| 2003        | Paks                   | 3                 | Hungary        | Partially spent fuel rods undergoing cleaning in a tank of heavy water ruptured and spilled fuel pellets                                 |
| 1999        | Tokaimura              | 4                 | Japan          | Fatal overexposures of workers following a criticality event at a nuclear facility   |
| 1999        | Yanangio               | 3                 | Peru           | Incident with radiography source resulting in severe radiation burns   |
| 1999        | Ikitelli               | 3                 | Turkey         | Loss of a highly radioactive Co-60 source  |
| 1999        | Ishikawa               | 2                 | Japan          | Control rod malfunction  |
| 1993        | Tomsk                  | 4                 | Russia         | Pressure buildup led to an explosive mechanical failure  |
| 1993        | Cadarache              | 2                 | France         | Spread of contamination to an area not expected by design  |
| 1989        | Vandellos              | 3                 | Spain          | Near accident caused by fire resulting in loss of safety systems at the nuclear power station  |
| 1989        | Greifswald             |                   | Germany        | Excessive heating which damaged ten fuel rods  |
| 1986        | Chernobyl              | 7                 | Ukraine (USSR) | Widespread health and environmental effects. External release of a significant fraction of reactor core inventory                        |
| 1986        | Hamm-Uentrop           |                   | Germany        | Spherical fuel pebble became lodged in the pipe used to deliver fuel elements to the reactor   |
| 1981        | Tsuraga                | 2                 | Japan          | More than 100 workers were exposed to doses of up to 155 millirem per day radiation  |
| 1980        | Saint Laurent des Eaux | 4                 | France         | Melting of one channel of fuel in the reactor with no release outside the site   |
| 1979        | Three Mile Island      | 5                 | US             | Severe damage to the reactor core  |
| 1977        | Jaslovské Bohunice     | 4                 | Czechoslovakia | Damaged fuel integrity, extensive corrosion damage of fuel cladding and release of radioactivity   |
| 1969        | Lucens                 |                   | Switzerland    | Total loss of coolant led to a power excursion and explosion of experimental reactor   |
| 1967        | Chapelcross            |                   | UK             | Graphite debris partially blocked a fuel channel causing a fuel element to melt and catch fire   |

Nuclear power station accidents and incidents

| <b>Year</b> | <b>Incident</b>               | <b>INES level</b> | <b>Country</b> | <b>IAEA description</b>   |
|-------------|-------------------------------|-------------------|----------------|---|
| 1966        | Monroe                        |                   | US             | Sodium cooling system malfunction   |
| 1964        | Charlestown                   |                   | US             | Error by a worker at a United Nuclear Corporation fuel facility led to an accidental criticality  |
| 1959        | Santa Susana Field Laboratory |                   | US             | Partial core meltdown   |
| 1958        | Chalk River                   |                   | Canada         | Due to inadequate cooling a damaged uranium fuel rod caught fire and was torn in two  |
| 1958        | Vinča                         |                   | Yugoslavia     | During a subcritical counting experiment a power buildup went undetected - six scientists received high doses   |
| 1957        | Kyshtym                       | 6                 | Russia         | Significant release of radioactive material to the environment from explosion of a high activity waste tank.  |
| 1957        | Windscale Pile                | 5                 | UK             | Release of radioactive material to the environment following a fire in a reactor core   |
| 1952        | Chalk River                   | 5                 | Canada         | A reactor shutoff rod failure, combined with several operator errors, led to a major power excursion of more than double the reactor's rated output at AECL's NRX reactor |

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