Pot a web site

BRC Public Comment Meeting Hilton Garden Inn, 815 14th Street N. W. Washington, D.C. 20005 October 20th, 2011

Dear Commissioner(s)

The presence of nuclear energy and its deadly destructive waste, and ways are threatening the very idea of a future.

Since 1945, 66 years ago, when the first nuclear test took place in New Mexico there have been three major accidents, Three Mile Island 1979, Chernobyl 1986, and now Fukushema on 3/11 of this year. These accidents didn't just happen on these dates, they **began** on these dates. Seven months after Fukushema the updated news keeps changing for the worst. Areas around Three Mile Island still have the effects of radiation looming in the air, water, and soil. Chernobyl is still saturated with huge amounts of radiation, and if the present enclosure around the reactor at Chernobyl is not replaced soon we will have another doom and gloom at the same location. 1951 was the first time a nuclear reactor generated power near Arco, Idaho. This was also the first reactor to have a partial meltdown in 1955. Since then nuclear power plants have been producing tens of thousands of tons of nuclear waste with nowhere to go. Nuclear waste not only comes as a byproduct of nuclear energy, but also from the entire process of mining, milling, and enriching. Waste is also created by the omnipresent leaks, malfunctions, and near misses all along the way. These accidents, leaks, malfunctions, and near misses teach us that the **unexpected DOES in fact happen**.

The two most abundant radioactive elements are Plutonium 239, and Uranium 238. Plutonium a half life of 24,000 years, and Uranium 238 has a half life of 162,000 years, a time so vast that it's basically forever. A single speck of Plutonium in the lung will cause cancer. That speck of Plutonium will remain through death and beyond.

Nuclear power plants cannot operate without regular, deliberate, and allowable releases of thousands of radioactive elements into the environment every day. It's important to know that a nuclear power plant uses approximately 100,000 gallons of water per minute, and this is in a world where close to 3 billion people are without clean drinking water or adequate sanitation. In a developed country per capita use is approximately 120 gallons of water per day. With the population reaching 7 billion this month, what are we to do?

Presently, there is a delusional premise behind nuclear energy that thinks we can create this waste and then contain it for the duration of its potent existence. So now, we have to live with the accumulation of the – blow up the earth-nuclear waste as well as the threat of a nuclear war. This hangs low above our pillows every night.

The continued accumulation of nuclear waste will be preventing any effective solution from ever being realized.

All this said the PSR's recommendations for handling the explosive waste seems to be well thought-out and reasonable. As a default only, for there is no solution, I would suggest taking their view point seriously.

Thank you,

Reguia Minnisa

Regina Minniss

IONIZING RADIATION'S EFFECT ON THE BODY

SKIN HALF-LIFE) (RADIONUCLIDE TYPE URANIUM 238 162,000 yrs. ALPHA PLUTONIUM 239 ALPHA 24,000 yrs. COBALT 60 BETA/GAMMA 5 YRS. Skin Cancer BREASTS PLUTONIUM 239 ALPHA 24,000 yrs. CESIUM 137 BETA/GAMMA 30.17 YRS. STRONTIUM 90 29.1 YRS. BETA Breast Cancer BETA/GAMMA 5 YRS.

TRITIUM BETA Breast Cancer Intestinal Cancer Down Syndrome

THYROID (RADIONUCLIDE

ODINE 131

TYPE HALF-LIFE) BETA/GAMMA 8 DAYS

Thyroid Cancer - women are three times as likely to be affected as men

LUNGS

URANIUM 234	ALPHA	162,000 yrs.
PLUTONIUM 239	ALPHA	24,000 yrs.
KRYPTON 85	вета/дамма	10 yrs.
Lung Cancer - m uranium miners		e among

SPLEEN

POLONIUM 210 ALPHA 138 DAYS Lymphoma - cancer of the blood cells

KIDNEYS

RUTHENIUM 106 BETA/GAMMA 1 YR. Kidney cancer - difficult to detect, hard to stop after 5 yrs.

BONE

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RADIUM 226	ALPHA	1620 yrs.
Strontium 90 (crosses into the be	BETA O ne marrow)	29.1 yrs.
YTTRIUM 90	BETA	64 HRS.
PROMETHEUM 147	BETA	2 yrs.
BARIUM 140	вета/дамма	13 days
THORIUM 234	BETA	24 DAYS
CARBON 14	BETA	5,600 yrs.
PLUTONIUM		

Leukemia - an overproduction of abnormal white blood cells which can be treated to some extent.

LIVER

COBALT 60 Liver Cancer - higher death rate in women

OVARIES

 Attacked by all radioactive isotopes emitting gamma radiation.

• PLUTONIUM 239 known to concentrate in the ovaries or testes.

Birth defects, mutations and miscarriages.

MUSCLE

Potassium 42	BETA/GAMMA	12 HRS.		
Cesium 137	BETA/GAMMA	30 yrs.		
Sarcoma - cancer of muscle tissue				

WHOLE BODY

12 YRS.