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20 MR. NESTER: My name is Dennis
1... 21 Nester. I am the agent for The Roy Process, which
22 is a transmutation technique that can neutralize and

1 cont. eliminate all radioactive waste, including plutonium, at each reactor site where it is stored. In a sense, waste can be used as a fuel and totally eliminated. It is gone. You don't have to store nothing.

2 But first I would like to talk about so-called burial or dry cask burial, or otherwise known as vitrification. Russia was first to try dry cask vitrification in their Ural Mountain nuclear dump. It exploded in the 1950s because heat is continually being generated along with hydrogen gas. Temperatures can rise to 5,000 degrees and you will have a thermal explosion. There is now a 100-mile-radius dead zone in the Ural Mountains. No one is allowed near the place.

Then Dr. Roy told me France tried vitrification and found it a failed technology. It simply will not work. Nothing can contain the most corrosive element in the universe, high-level nuclear waste. It is going to leak out or explode or both.

1 cont. Now, with The Roy process, transporting

1 cont. 1 high-level waste to Yucca Mountain would be a
2 colossal blunder because there is technology
3 available that can neutralize and totally eliminate
4 waste at each reactor site where the waste is
5 stored.
3 6 The Government Accountability Project
7 August the 24th, 1999 press statement cited
8 strontium 90 is leaking into the Columbia River from
9 the Hanford KE reactor area where salmon spawn.
10 Nothing will contain radioactive waste for
11 hundreds of thousands of years. It is already
12 leaking into our precious groundwaters and is
13 irretrievable. It is too late. But we can still
14 stop it with The Roy process.
1 cont. 15 In 1979 -- this is 20 years ago -- the
16 late Dr. Roy, professor of physics emeritus,
17 released to the press that he had invented a new
18 method that would transform all nuclear waste,
19 including plutonium, into harmless non-radioactive
20 elements and generate power as a byproduct. As the
21 isotopes rapidly decay into stable form, heat is
22 given off, which can be used to make steam and

1 cont. generate power. The generators are already at the reactor. That is what a reactor does is make steam. So it uses existing infrastructure, already paid for, already there.

Dr. Roy estimated, and this was in '79, it would take about $80 million and two to three years to construct the first Roy Process pilot plant. Subsequent plants would be cheaper, and also portable units could be made to take on site for decontamination if you didn't want to build a whole new pilot plant.

There is already much radioactive environmental contamination worldwide from atmospheric bomb tests cited in books such as "Silent Spring" by Rachel Carson. A book by Dr. Jay Gould, titled "The Enemy Within," cites rising breast cancer rates from the first atom bomb test in 1945. Prior to 1945 breast cancer rates were going down. Now it is one in eight.

I remember a cancer specialist pointed out 200 years ago one in 100 died of cancer at the beginning of the industrial revolution. Then by

1 1900 it was 1 in 24. Now it is one in three, soon
2 to be one out of two. I just want to -- a few more
3 citations.
4 This is off the Internet from the
5 Greenpeace website. Government study, the British
6 Department of Health has found plutonium in the
7 teeth of children throughout England, Northern
8 Ireland, Scotland and Wales. The study shows that
9 radioactive discharge from the Sellafield plutonium
10 reprocessing factory has contaminated people
11 throughout the region.
12 In France, The Hague, the air is -- this
13 is airborne radiation -- 90,000 times higher than
14 background study. And, also, British radioactive
15 pollution contaminates the nordic coastlines.
16 Danish, the Norwegian and Swedish coastlines from
17 the Sellafield plutonium factories are contaminated
18 with high-level nuclear waste. And in Hanford it is
19 leaking in the Columbia River, which goes out to
20 sea, and the prevailing currents carry it all the
21 way down the West Coast. It will be contaminated
22 with high-level nuclear waste. It is happening

already. It is too late. It has leaked into the ground, 230 feet into the groundwater, and springs have been discovered leaking into the Columbia River.

I have got 15 years of stuff to tell you, but I don't have that much time.

MR. LAWSON: You are correct about that.

1 cont. MR. NESTER: This is The Roy Process: To give an example, this is high-level waste. Cesium 137, with a half life of 30.17 years, is transformed into cesium 136 by knocking out the excess neutron in the nucleus, which then becomes -- which -- cesium 136 then has a half life of 13 days.

Plutonium, which is the longest lived, plutonium 239, with a half life of 24,300 years, when two neutrons are knocked out becomes plutonium 237, with a half life of 45 days. From 24,000 years, it comes down to 45 days, which is transmutation technique.

MR. LAWSON: Mr. Nester, I would

1 suggest if you could summarize your major point, but
2 please submit your written comments and any
3 supplemental material, because it is quite
4 technical.

1 cont. 5 MR. NESTER: All right. This is
6 really a basic brief description of what Dr. Roy
7 approved for release. Proprietary technical data
8 remains secret for commercial development who need
9 exclusivity. So what we have is a patent
10 application of three elements, the longest lived,
11 which is plutonium 239, strontium 90 and cesium
12 137.
13 Apparatus and theory, the electrodynamic
14 calculations are proved and written out and that is
15 what we have with The Roy Process. And companies
16 who are capable of developing this may come to us
17 and we can contract with them. So that is it.
18 MR. LAWSON: Okay.
19 MR. NESTER: My time is up?
20 MR. LAWSON: I am just
21 suggesting that you have a lot of material there and
22 I would like to suggest that you submit it in

1 written form --

2 MR. NESTER: Okay.

3 MR. LAWSON: -- so we make sure

4 we get it into the record.

1 cont. 5 MR. NESTER: I would just like

6 to briefly mention who Dr. Roy was. Professor of

7 physics at Arizona State, professor and director of

8 nuclear physics, Pennsylvania State University,

9 professor and director of nuclear physics

10 laboratory, University of Brussels, Belgium,

11 visiting professor, Strasbourg, France, and all over

12 Europe. He was a fellow of the Madam Curie

13 Institute, which is highest distinction in Europe

14 for nuclear physicist.

15 It would take me five minutes to cite his

16 body of work. He has had many original discoveries,

17 of which The Roy Process was his last. He is

18 deceased.

19 What we need is a paradigm shift away from

20 geological isolation. We need to go to

21 transmutation. We can eliminate it. We don't need

22 to worry about contamination. It would be gone.

1 cont.

1 Plus generate power. So it might make money even.
2 How much, we will see.
3 This was first released in 1979 and then
4 in 1982 the government made burial government
5 policy, putting this in limbo. It has been sitting
6 there for 20 years. So if we could go away from
7 burial, we have this. Thank you.
8 MR. LAWSON: Thank you, sir.
9 Our next speaker is Robert Tiller. Is
10 Mr. Tiller here?
11 (No response.)
12 Clarke Cooper and following Mr. Cooper
13 would be Martha Law. Is Ms. Law here? And then
14 Kevin Kamps.