Research Article ISSN 2767-3901

International Journal of Theoretical & Computational Physics Is Sunflower-Based Plutogenization Doable? An Analysis Relying on a Simple Model

Florent Pirot

Independent Researcher, Valbonne, France

*Correspondence author

Florent Pirot

Independent Researcher Valbonne

France

Submitted: 6 July 2022; Published: 2 Feb 2023

Citation: Pirot F., Is Sunflower-Based Plutogenization Doable? An Analysis Relying on a Simple Model. I J T C Physics, 2023; 4(1):1-3.

Abstract

Is discussed a sunflower model relying on a vertical explosive fission-accelerated breeder of plutonium. Two proposals are discussed within and early experiments from Lockheed-Martin and Raytheon using this model in a new model of the Javelin also shown. Some biological risks in case of use of crematory material are also discovered and an experiment from the Royal Navy and Boston University researchers also discussed, confirming the predicted effects.

The sunflower-model for plutogenization relies on a vertical sunflower made of a material dominated by osmium and tungsten, which relies on Fermionic condensation for pressurization and breeds in principle easily harvestable plutonium on its petals.

A supplementary piece of lowenriched-uranium is placed in the center of the sunflower. It is made to stay on the top and avoid all contact with the bottom liquid, until final All the tips of the sunflower are to operation. be filled with depleted uranium pieces and linked with screws. 2 kilograms of highl enriched uranium dissolved in water Pressure push after careful isolation turning upside down of the sunflower

This model, above, is extremely likely to produce an explosive effect that will break the sunflower.

I J T C Physics, 2023 www.unisciencepub.com Volume 4 | Issue 1 | 1 of 3

It is also possible that, would human flesh or blood be used in the liquid (for instance), a Coronavirus be generated, with delayed neutrons in the plasma explosion surrounding the sunflower provocating a delayed feedback forming it with returning compression.

The alternative option would rely on helium gas instead of water for the fissile material of the prop, and a station of the sunflower bottom up. This slow plutogenization presents many risks, including the risk of a leak of helium gas killing the process, and demands absolutely plutonium 239-240 as basis instead of HEU. It also presents a risk of overheating along with a blast of the flower. The screws which are a condition for harvesting of the plutonium are indeed likely to melt down. There are also issues related to the cooling before harvesting, and in between the heat is more likely to have merged down the screws with the metallic matter of the sunflower, if it has not exploded earlier.

In a better system relying on a box for plutogenization, it is easier to rely for instance on the Triga-like subcritical model presented in (Pirot, 2021), or for instance on a mix of helium and depleted uranium dust in (Pirot, 2022).

The alternative of rapidly sticking cements¹ as neutron material along with depleted uranium only in the mix to be poured into the central sunflower where a piece of highly enriched material is set could work, to some conditions. A neutron source has to be set under the sunflower to create a neutron stream within up to the flower. The use of the neutron source directly into the flower is recommended against because the neutron flow being too close to the neutron source, heat-up related to the impossible-to-prevent fission within is likely to melt down the neutron source as well (as it needs to be placed in between petals in this configuration), especially for chip-based laser neutron sources targeting the tungsten. In this pattern as well a LEU piece inside the flower can help. The use of Cf252 instead could be also envisioned. It presents a criticity risk that may or may not be controlled, if too much cement and depleted uranium create a pressure onto it, from, simply, the impact of the downpour.

The use of solar neutrons along with a much deeper injection of the dissolved-in-water HEU, into the flower, could also cause in many configurations pollution of surrounding farm fields or households, for instance. Indeed as tungsten and osmium are not favourable to the use of solar neutrons, weaker materials would need to be used, and this also increases the risk of a preliminary explosion. Neutrons passing through the petals start opening leaks that later can facilitate the criticity burst or at least depressurization killing the plutogenization process (along with supplementary costs for harvesting the insufficiently plutogenized material).

In principle the harvested sunflower petals can be directly used for e.g. warhead making but this goes against the use of tungsten and osmium for their composition. Weaker metals, beneficial for warhead tips but also more flammable, increase the risk of explosion during the plutogenization process.

The direct use of the plutogenized sunflower as anti-tank missile has achieved some results although it was not intended for this direct use when conceived. The sunflower was not intended for direct ATGM use but for plutonium harvesting and fabrication of smaller warheads. Although results achieved with full blast of the sunflower are very interesting

(see illustrations), it creates a cement pollution altogether with some of the central node of low-enriched uranium that are solely valuable in areas already contaminated with depleted uranium dust, where the cement will contribute to its plutogenization thanks to the neutrons of the non-fissioned part of the warhead, before Bose-Einstein condensation will facilitate cement cleaning thanks to fission products.



Figure 1: In airburst detonation



Figure 2: Detonation at impact point. Raytheon and Lockheed Martin's Javelin missile was upgraded with the sunflower after initial drafting of the article, allowing these clean and convincing results.

Later experiments with the recycling of crematory ashes in chlorine-crematory format (zyklon-C) have proven the argument on the high biological danger made earlier. This showed up by an explosion on board a frigate where the experiment was made [3] – the report received by the author indicates as result a wider form of necrotizing fasciitis that covers the face and creates scales on the skin forcing mummification of the patient to avoid skin loss through the necrosis². This results from the fast cement's chemical affinities with the pores of the human skin, making the resulting bacteria after zyklon-C use able to scavenge through it. It is also reported as "five times more infectious" (Livemint, 2022)³.

In conclusion, the risks are superior to the benefits in most configurations, except in cement-plutogenization with a neutron source and with respects of the most basic human rights (to avoid disease generation). The harvesting is possible and the sunflower can also be used as energy storage system,

by simply plutogenizing during summertime and passing water tubes through the petals while streaming neutrons with a laser onto them during wintertime, allowing for a supplementary energy source that can be fed on a typical dynamopower. The waterflow will suffice to slow the neutrons and make them efficient on the plutonium. Several sunflowers should be standing along each other, with four to five watertubes passing through their petals before output on the stator-introduced wheel, to compensate the water acceleration's acceleration of the neutrons and ensure full electricity benefit of the design. 100 MW can be expected to be produced through this pattern with 10 sunflowers.

References

- Pirot, F. (2021). A TRIGA-like subcritical concept for biological waste management (pills, old vaccines etc.). Research Journal of Pharmacology and Pharmacy, 5, 12. DOI: 10.28933/rjpp-2021-07-1006. Retrieved from https://escipub.com/rjpp-2021-07-1006/
- Pirot, F. (2022). A « Water Motor » With an Accelerator, Water With High Natural Radioactivity and Fission. Int J of Theoretical and Computational Physics, 3(1). 1-3. DOI: 10.47485/2767-3901.1022. Retrieved from https://unisciencepub.com/abstract/a-water-motor-withan-accelerator-water-with-high-natural-radioactivity-andfission/
- 3. Caitlin Tilley, Mansur Shaheen, October 17th 2022. Retrieved from https://www.dailymail.co.uk/health/article-11323677/Outrage-Boston-University-CREATES-Covid-strain-80-kill-rate.html
- 4. Livemint. October 18th 2022. Retrieved from https://www.livemint.com/news/this-new-man-made-covid-strain-is-5-times-more-infectious-with-80-kill-rate-11666096752940.html
- On-chip integrated laser-driven particle accelerator, Neil V. Sapra, Ki Youl Yang, Dries Vercruysse, Kenneth J. Leedle, Dylan S. Black, R. Joel England, Logan Su, Rahul Trivedi, Yu Miao, Olav Solgaard, Robert L. Byer, Jelena Vučković, Science, 03 Jan 2020: Vol. 367, Issue 6473, pp.79-83, DOI: 10.1126/science.aay5734

¹Those used for rapid masonry, that have a volatile nature, typically "25 minutes sticking" are ideal so long as no water is introduced within their mix with depleted uranium dust.

²These health indications come from the Royal House, precisely from Charles III and Queen Consort Camilla themselves. One may observe that the Prime Minister Liz Truss was forced to resign a few days after.

³The use for detonator of crematory ash (by some people misinspired by the use of the black colour for the arrow pressing on the sunflower in the model) may also result with returning Bose Einstein condensation from the fission products and the non-fissionned plutonium into bacteria floating around the impact point.

Copyright: ©2023 Florent Pirot. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in anymedium, provided the original author and source are credited.