

Mars Construction, LLC

Title: Radiation Design (Phase I in progress)

File: DES-Projects-033

By: Gjr

Rev: A

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Design Variables need to be defined:

Habitat's for Lunar and Mars surfaces.

Radiation can be eliminated by building [Radiation Shielding \(NASA, radiation on Mars\)](#) into space suits ([NASA](#)), [space vehicles](#), and [habitats](#). Ongoing studies have taken place in the [ISS](#) for years. How [Space Suit Works](#) (SpaceX Cost, \$12 million) is a training guide for users. [Radiation Shield Vest](#) to protect from ongoing radiation without use of space suit.

[Boron Nitrate Nano Tube](#) (You tube video), (BNNT) does a good job of absorbing radiation. BNNT can be used for ([NASA](#)) (YouTube Video) is a fire & heat resistant at 1600 degree C/ ____ F, structural material for building habitats, space suits, water and air filters, fabric and other manufactured items.

Space Suits, [MIT astronautics engineer Dava Newman](#) developed a solution. [Light weight Bio Suit](#) (you tube video), pressure (1 atmosphere on Earth) to 1/3 of atmosphere (oxygen/nitrogen) space suite made from treated fabric to eliminate radiation shielding of heavy space suit. Shrunk space craft around person with communication, pressure, oxygen, and carbon dioxide scrubbing, radiation protection.

Design Specifications:

Height:

Length:

Volume:

www.youtube.com

[The Mars Homes That NASA Awarded \\$500k, robotic habitat construction](#)

[THIS Is How We Build On Mars \(3D Printing, Habitat, clothing\)](#)