

ARCO ROADMAP

A ROADMAP FOR NORTH SLOPE GAS CONCEPT DEVELOPMENT

A roadmap for North Slope Gas Development was developed in 1986. This included concepts from the original 3 ARCO patents and new ideas developed or embellished by subcontractors from Titan Systems Corporation and SAIC Corporation. The major subsections of the roadmap were:

Ballistic Missile Shield

Strategic Space Weapon Defense

ASAT (Anti Satellite Weapon)

Satellite Corridor Formation (Van Allen Belt Drainage)

Over the Horizon (OTH) Reflector (Ionospheric Patch Formation)

Communications-ELF/VLF

Detection and Discrimination

Satellite Interrogation

Ground to Space Power Beaming (ARCO Satellite Gas Station)

Nuclear Weapons Effects Simulation

Atmospheric Modifications

Weather Modification

Environmental Modification

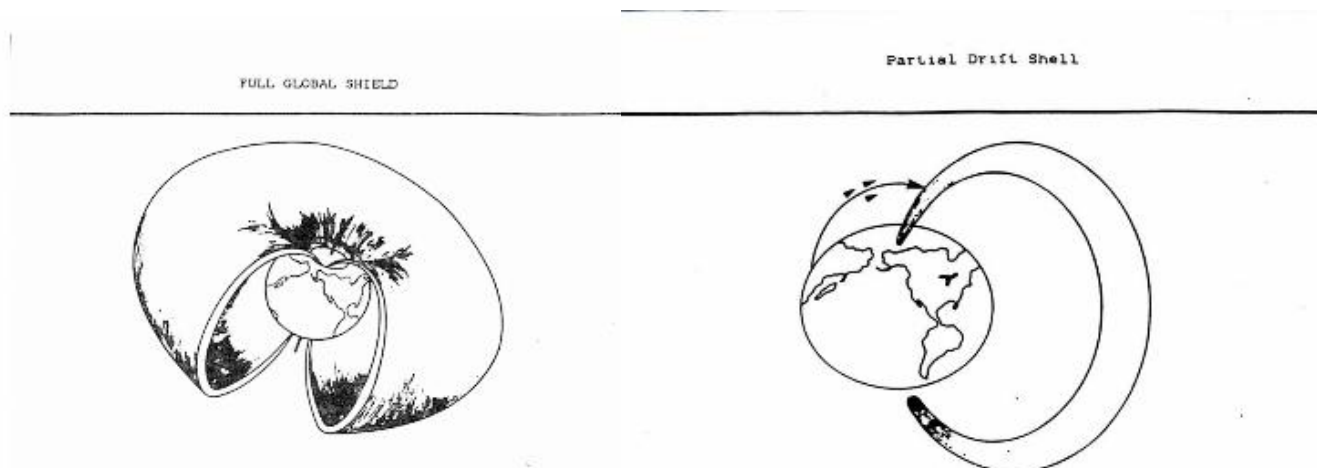
Space Elevator

Ballistic Missile Launch Detection (Whispering Gallery)

Synergistic Applications

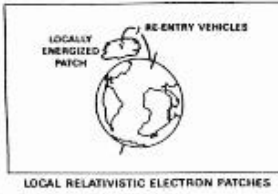
Enhanced Oil Recovery

The history in HAARPSROOTS indicates progress in some of these areas. (i.e. contracts awarded) The HAARP facility itself was an outgrowth of this road map. A generic briefing was prepared and Simon Ramo and others helped ARCO and APTI (A wholly owned subsidiary of ARCO at that time) market various concepts. Some of them, such as satellite corridor formation are active areas of research at the HAARP facility. Some figures that were used during the "sales" efforts to the DOD are shown below:



APPLICATIONS

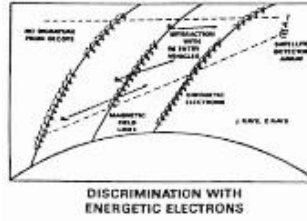
**STRATEGIC SPACE WEAPON DEFENSE
BALLISTIC MISSILE PATCH SHIELDS**



- **MISSION**
TO PRODUCE LOCALIZED REGIONS OF HIGH-ENERGY ELECTRONS WITH FLUX LEVELS NECESSARY FOR DISCRIMINATION, UPSET, OR HARD KILL.

APPLICATIONS

DETECTION AND DISCRIMINATION



- **MISSION**
TO DETECT AND DISCRIMINATE RE-ENTRY VEHICLES IN THE PRESENCE OF PENNAIDS.
- **CONCEPT**
PRODUCE REGIONS OF RELATIVISTIC ELECTRONS IN THE PATH OF A THREAT CLOUD AND USE THE RADIATION FROM THE RESULTING INTERACTIONS TO DETERMINE THE LOCATION OF RE-ENTRY VEHICLES.