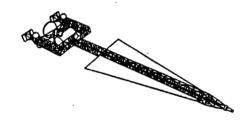
# Focused Technology: Nuclear Propulsion

## **Nuclear Thermal Propulsion**

## **Nuclear Electric Propulsion**





#### Presentation to SSTAC/ARTS

Thomas J. Miller 10/21/92

# NASA

LEWIS RESEARCH CENTER

#### **OBJECTIVE**

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DEVELOP AND DEMONSTRATE TECHNOLOGY FOR NUCLEAR PROPULSION SYSTEMS TO SATISFY USER CODE MISSION REQUIREMENTS

- BALANCE TECHNOLOGY AND PERFORMANCE WITH SOUND SAFETY AND ENVIRONMENTAL POLICIES

#### SCOPE

#### CUSTOMER

- NUCLEAR THERMAL
- NUCLEAR ELECTRIC
- LUNAR/MARS EXPLORATION (OEX)
- ROBOTIC SCIENCE (OSSA)

## **ELEMENTS**

- CONCEPT DEVELOPMENT AND SYSTEMS ENGINEERING
- INNOVATIVE TECHNOLOGY
- ENABLING TECHNOLOGY (NEP & NTP)
- FACILITIES
- SAFETY, QA AND ENVIRONMENT

HUCLEAR PROPULSION OFFICE

🗖 Lewis Research Center 🚍

# MISSIONS CONSIDERATIONS

- SAFETY
- PERFORMANCE
- COST
- SCHEDULE FOR DEVELOPMENT
- OPERATIONAL FLEXIBILITY
- APPLICATION TO RANGE OF MISSIONS EVOLUTIONARY GROWTH POTENTIAL

