



## **Exhibit 2: Essential to Research**

### **Basic facts:**

An important aspect of our launch vehicle is that the first stage is recoverable. In order to make it recoverable, it clearly must transmit a signal which will allow our recovery team to locate it, which thereby requires a licensed frequency.

For completeness, the only other 2 options would be:

1. Eliminate recoverability, which is wasteful and against concept
2. Place the recovery ship within the impact ellipse, which would violate safety regulations.

### **Summary:**

Space Exploration Technologies (SpaceX) is a small launch vehicle company, which will be launching an NRL satellite in January 2004. The first stage of the vehicle will separate and land in the Pacific Ocean at coordinates listed on our application. We need to place a recovery beacon on the first stage, which transmits a simple pulse for no more than three hours, so that our recovery ship may locate and recover the stage.