

HNS License Sub, LLC
Experimental License Application
Ka Band Transmit/Receive Earth Station Testing

Attachment 2

Description of International Bureau Authority

HNS License Sub, LLC (“HNS”) here requests experimental authority for a period of 24 months to conduct testing of earth station prototypes for the licensed Spaceway Ka band GSO FSS satellite system. HNS currently operates this test facility under special temporary authority (“STA”) from the International Bureau. *See* IB File No. SES-STA-20040903-01089. An application for renewal of this STA is currently pending. *See* IB File No. SES-STA-20050203-00134.

On November 14, 2000, the International Bureau granted HNS’ predecessor, Hughes Network Systems, Inc., an STA to operate the Ka band test facility described in Attachment 1. Since the original grant of this STA, HNS has periodically requested and been granted continued STA authority to operate this Ka band earth station test range. Following discussions with the International Bureau staff, HNS has been advised that it would be appropriate to seek experimental authority for this test range, instead of seeking a further renewal of STA. Because the International Bureau has already reviewed and approved HNS’ operations of this test facility, there is no need for a prolonged coordination with the International Bureau on this application.

Pursuant to the STA, HNS developed a test fixture to continually measure transmit and receive frequencies on this range system. Single size prototype antennas are monitored twenty-four hours per day, measuring gain variations based on weather conditions. As set forth in greater detail in the attached technical parameters, grant of experimental authority should not cause interference to any FCC-licensed user of the spectrum. In any event, HNS acknowledges that the requested authorization will be conducted on a non-interference basis to other FCC-licensed users of the spectrum.