

EXHIBIT 1

Channel ID	Transponder slot	Hub station		User Terminal		Satellite	
		Tx. IF	Rx. IF	Tx. IF	Rx. IF	Uplink	Downlink
VC1	8	153.40	143.40		143.40	2025.40	1683.40
VC2	12	153.60	143.60		143.60	2025.60	1683.60
VC3	16	153.80	143.80		143.80	2025.80	1683.80
VC4	24	154.20	144.20		144.20	2026.20	1684.20
N1	30	154.50	144.50			2026.50	1684.50
N2	32	154.60	144.60			2026.60	1684.60
N3	36	154.80	144.80			2026.80	1684.80
N4	39	154.95	144.95			2026.95	1684.95
N5	45	155.25	145.25			2027.25	1685.25
N6	50	155.50	145.50			2027.50	1685.50
N7	56	155.80	145.80			2027.80	1685.80
N8	60	156.00	146.00			2028.00	1686.00
H1	62	156.10	146.10			2028.10	1686.10
H2	65	156.25	146.25			2028.25	1686.25
H3	70	156.50	146.50			2028.50	1686.50
H4	72	156.60	146.60			2028.60	1686.60
H5	77	156.85	146.85			2028.85	1686.85
H6	82	157.10	147.10			2029.10	1687.10
H7	88	157.40	147.40			2029.40	1687.40
H8	96	157.80	147.80			2029.80	1687.80
F	106	158.30	148.30	490.30	148.30	2030.30	1688.30
E	105	158.25	148.25	490.25	148.25	2030.25	1688.25
D	108	158.40	148.40	490.40	148.40	2030.40	1688.40
C	107	158.35	148.35	490.35	148.35	2030.35	1688.35
B	110	158.50	148.50	490.50	148.50	2030.50	1688.50
A	109	158.45	148.45	490.45	148.45	2030.45	1688.45
9	111	158.55	148.55	490.55	148.55	2030.55	1688.55
8	112	158.60	148.60	490.60	148.60	2030.60	1688.60
7	113	158.65	148.65	490.65	148.65	2030.65	1688.65
6	114	158.70	148.70	490.70	148.70	2030.70	1688.70
5	115	158.75	148.75	490.75	148.75	2030.75	1688.75
4	116	158.80	148.80	490.80	148.80	2030.80	1688.80
3	117	158.85	148.85	490.85	148.85	2030.85	1688.85
2	118	158.90	148.90	490.90	148.90	2030.90	1688.90
1	119	158.95	148.95	490.95	148.95	2030.95	1688.95
EMN-3	120	159.00	149.00	491.00	149.00	2031.00	1689.00
EMN-D	122	159.10	149.10	491.10	149.10	2031.10	1689.10
EMN-C	121	159.05	149.05	491.05	149.05	2031.05	1689.05
0	123/124	159.175	149.175	491.175	149.175	2031.175	1689.175
SPOT-1, SPOT-2, and SPOT-3						2031.294	
S	130	159.50	149.50	131.50	149.50	2031.50	1689.50
T	134	159.70	149.70	131.70	149.70	2031.70	1689.70
SPOT-2 BIS						2031.846	
U	140	160.00	150.00	132.00	150.00	2032.00	1690.00
V	143	160.15	150.15	132.15	150.15	2032.15	1690.15
W	147	160.35	150.35	132.35	150.35	2032.35	1690.35
X	150	160.50	150.50	132.50	150.50	2032.50	1690.50
Y	152	160.60	150.60	132.60	150.60	2032.60	1690.60
Z	156	160.80	150.80	132.80	150.80	2032.80	1690.80

Table B4.0-1 : PEACESAT Operational Frequency Plan

EXHIBIT NO. 2

9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project).

YES

(a) A description of the nature of the research being conducted.

The PEACESAT program conducts research in public service telecommunications and communication development, primarily for the use of distance education.

(b) A showing that the communication facilities requested are necessary for the research project involved.

The PEACESAT program utilizes decommissioned weather satellites, GOES-2 and GOES-7. This allows the program to provide experimental communication at no metered fees to the user. Currently the network connects Micronesia, Polynesia and Melanesia. The station at the subject of this request will provide communication to existing earth stations in Micronesia and have the capability to provide communication to all other earth stations in the network.

(c) A showing that existing communications facilities are inadequate.

The PEACESAT earth stations are specifically in S/L Band meteorological frequencies. There are no "off the shelf" products available for satellite communications in these frequencies. The network and existing earth station use the frequencies as listed in EXHIBIT 1.