

REQUEST FOR EXPERIMENTAL SPECIAL TEMPORARY AUTHORITY
EXPEDITED TREATMENT REQUESTED

Dielectrics, Inc. (“Dielectrics”) hereby respectfully requests Special Temporary Authority (“STA”) under Part 5 of the Commission’s rules to permit it to operate equipment at a variance from the current authority that the subject equipment has under Part 18 of the Commission’s rules.¹

Dielectrics operates over eighty (80) pieces of Industrial, Scientific, and Medical (“ISM”) equipment at its headquarters in Chicopee, MA. This equipment is used to weld plastic materials, for the manufacturing of medical devices, by utilizing RF, impulse, thermal, and ultrasonic processes. This ISM equipment is produced by a variety of manufacturers.² Dielectrics hereby seeks authority to modify the operation of its equipment to a slightly higher frequency range in order to respond to a request by the Federal Aviation Administration (“FAA”) and the Federal Communications Commission (“FCC”).

Specifically, the Dielectrics equipment is authorized by rule to operate at 27.12 MHz.³ To facilitate FAA operations, the Commission has requested that Dielectrics operate its RF equipment at a center frequency of between 28.0 and 29.4 MHz. Accordingly, Dielectrics is requesting this experimental STA on an expedited basis so that it may comply immediately with this request. Dielectrics has confirmed with the manufacturers of its equipment that the equipment can be retuned in the proposed 28.0-29.4 MHz band. Following the expedited conversion of the equipment to operate at the new center frequency, Dielectrics will continue to work with the FAA and FCC to reach a long-term solution that satisfies the needs of both the FAA and Dielectrics.

Based on the foregoing, Dielectrics hereby submits that the public interest will be indisputably benefited by grant of the subject application on an expedited basis.

¹ Part 18 governs the used of Industrial/Scientific/Medical (“ISM”) equipment that is authorized under the Declaration of Conformity or equipment certification procedures prior to use or marketing. *See* 47 C.F.R. 18.203.

² For a complete list of the equipment that is the subject of this STA request, refer to Exhibit 1 hereto.

³ 47 C.F.R. § 18.301.

Exhibit 1 - Equipment in Use

HD = Hall Dielectric	K = Kabar	Callanan	SP = Seal Pack
T = Thermex Thermatron	HFT = High Frequency Technology	Solidyne	

Machine Details				
	Machine no.	Manufacturer	Model	Power
1	DMC 6.01	T	F10.25	10KW
2	S-117	HD	FS25-30	30KW
3	S-126	T	KA103	10KW
4	S-160	T	K30S	15KW
5	S-172	HD	FS15A	15KW
6	S-173	HD	FS10A	10KW
7	S-203	HD	FS15A	15KW
8	S-205	HD	PS25-30	30KW
9	S-215	HD	FS10A	10KW
10	S-220	HD	FS30KW	30KW
13	S-128	T	KA64	6KW
14	S-137	T	KF7SC	7.5KW
16	S-164	T	KA33	3KW
17	S-200	T	KA64	6KW
18	S-211	T	K103S	10KW
15	S-109	T	KA151SA	15KW
11	S-130	T	KA151	15KW
12	S-140	T	KA103	10KW
19	DMC 2.04	T	K645A	6KW
20	S-110	T	KF75	7.5KW
21	S-116	T	K10345	10KW
22	S-119	T	KA151	15KW
23	S-124	K	6500FS	6.5KW
24	S-129	K	20000FS	20KW
25	S-131	T	K1515A	15KW
26	S-142	T	4RS	4KW
27	S-143	T	10000FS	10KW
28	S-151	T	K3000.8	30KW
29	S-163	T	K41S	4KW
30	S-165	T	KA103	10KW
31	S-171	K	10000FS	10KW
32	S-175	T	KA103	10KW
33	S-176	SOLIDYNE	KF82	8KW
34	S-179	HD	N/A	10KW
35	S-184	K	HFT-30/15	30KW
36	S-187	CALLANAN	40SB	4KW
37	S-194	T	KF7.5	7.5KW
38	S-202	HD	FS15A	15KW
39	S-204	T	K3523	35KW
40	S-214	K	10000FS	10KW
41	S-216	T	N/A	6KW
42	S-218	K	N/A	4KW
43	S-221	HD	NEW	30KW
44	S-223	K	DH4000	4KW
45	S-225	K	15000D	10KW

46	DMC 2.02	T	K33SA	3KW
47	DMC 2.03	T	K33SA	3KW
48	DMC 2.07	T	K103	10KW
49	DMC 4.11	T	KF41	4KW
50	DMC 6.03	T	K33SA	3KW
51	DMC 6.10	T	KA103	10KW
52	DMC 6.11	T	K103SA	10KW
53	DMC 9.03	T	KF112	12KW
54	S-101	T	S.C.KF103	10KW
55	S-103	T	KF75	7.5KW
56	S-108	T	KF75	7.5KW
57	S-111	T	K103SA	10KW
58	S-114	T	K151SA	15KW
59	S-121	T	KA151	15KW
60	S-123	K	2000FS	20KW
61	S-127	K	15000FS	15KW
62	S-135	T	K103SA	10KW
63	S-146	T	KA33	3KW
64	S-153	T	SC	7.5KW
65	S-156	T	KA64	6KW
66	S-162	T	KF41	4KW
67	S-166	T	K1039A	10KW
68	S-174	T	KA33	3KW
69	S-177	T	K1035	10KW
70	S-178	SOLIDYNE	KF62	6KW
71	S-180	K	6500FS	6.5KW
72	S-181	K	10/15000	6.5KW
73	S-182	HFT	HFT-3015	30KW
74	S-183	HFT	HFT-40/20	40KW
75	S-195	T	K32S	3KW
76	S-196	T	K5S	5KW
77	S-199	T	KA33	3KW
78	S-209	T	TY-KA-103	10KW
79	S-210	T	TY-KF-75	7.5KW
80	S-213	T	K103S	10KW
81	S-217	SP	N/A	3KW
82	S-219	K	10000	10KW
83	S-224	K	4000FS	4KW
84	S-198	T	KA103	10KW

Dielectrics notes that all equipment operates with a NON emission.