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January 10, 2000

Ms. Magalie Roman Salas, Secretary
Federal Communications Commission
The Portals, TW-A325
445 12th Street, S.W.
Washington, D.C. 20554

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JAN 10 2000
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: WT Docket No. 96-86; WTB-2

Dear Ms. Salas:

This letter is written on behalf of Motorola, Inc. (Motorola). On Friday, January 7, 2000, Wayne Leland, Corporate Vice President and Director, Commercial, Government, Industrial Systems Solutions, Motorola; Al Ittner, Manager, Spectrum and Regulatory Strategy, Commercial, Government, Industrial Systems Solutions, Motorola; Rich Barth, Vice President and Director, Telecommunications Strategy and Regulation, Motorola; and, Jeanine Poltronieri, Director, Telecommunications Strategy and Regulation, Motorola, met with Jeannie Kowalski, Deputy Chief for Public Safety, Public Safety and Private Wireless Division, Michael Wilhelm, Designated Federal Officer, National Coordination Committee (NCC) and Mark Rubin, Legal Advisor, Wireless Telecommunications Bureau. The parties discussed issues related to the ongoing work of the NCC.

Motorola discussed ANSI/TIA/EIA 102.BAAA-1 (ANSI-102) Project 25 FDMA Common Air Interface (Project 25). The NCC Technology Subcommittee recently chose ANSI-102 as the preferred technology for narrowband interoperability by consensus. Mr. Leland pointed out several attributes of Project 25 spectral efficiency. Project 25 Phase I requires a 12.5kHz channel width, with a migration to a 6.25 channel width in Phase II. Mr. Leland discussed the fact that on a bit for bit equivalency basis, Project 25 Phase I is the equivalent of two voice channels per 12.5 kHz. Mr. Leland pointed out that the transition to Project 25 Phase II equipment would be without penalty for public safety users who had implemented a Project 25 Phase I system. This is because the Project 25 Phase II standard requires backward compatibility to Phase I. This will allow a public safety user who has purchased Project 25 Phase I infrastructure and equipment to migrate to Phase II. This user would be able to operate on the interoperable channels using a 12.5 kHz channel width but with a 6.25 kHz channel width on the general use channels. The requirement for backward compatibility to Project 25 Phase I is required by the standards documents for all Project 25 Phase II radios, whether they are manufactured using the FDMA standard, which has already been adopted, or the two Time Division Multiple Access (TDMA) proposals which have been accepted by the Project 25 Steering Committee. Ericsson and the European Telecommunications Standards Institute

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(ETSI) Terrestrial Trunked Radio (TETRA) Memorandum of Understanding group have made the TDMA proposals. Mr. Leland pointed out that the Ericsson TDMA proposal will not interoperate with the TETRA TDMA proposal, and neither will interoperate with the FDMA 6.25 kHz standard. All three technologies, however, will have an interoperability mode using Project 25 Phase I, 12.5 kHz. This means that all new technology proposals will interoperate on 12.5 kHz channels. If the NCC were to choose one of the 6.25 kHz proposed standards, it would exclude the other technologies, since they do not interoperate in 6.25 kHz mode, effectively reducing user's choice and competition.

In addition, Mr. Leland discussed the needs of public safety users to gain access to the spectrum in the 700 MHz band quickly. Some public safety users are looking to the 700 MHz band as an expansion band to supplement their operations at 800 MHz, and this may be a viable option in areas where incumbent television channels have been cleared or where these television channels were never in use. Equipment manufactured using the ANSI-102 standard can be made available quickly for these and other public safety users, as there is already equipment manufactured for the 800 MHz band to the ANSI-102 standard. Were the NCC to choose a technology operating on a 6.25 kHz channel width for the interoperability standard, there would be additional delay as no equipment using that channel width is currently being manufactured.

Motorola also provided FCC staff with a timeline that shows the progress of Project 25 Phase I, Project 25 Phase II, and Project 34, which is a standard being developed to support wide band data for public safety. A copy of this document is attached to this filing.

Mr. Leland reiterated Motorola's commitment to comply with commitments regarding the intellectual property rights, including patents and registered copyrights, claimed by Motorola in Project 25 Common Air Interface. Mr. Leland provided FCC staff with a copy of a January 6, 2000 letter from Motorola to Mr. Wilhelm, which supplements a November 12, 1999 letter to Mr. Wilhelm regarding intellectual property rights. These letters state that "for such patents and registered copyrights held by Motorola and required for compliance with the ANSI/TIA/EIA 102.BAAA-1 Project 25 FDMA Common Air Interface standard, a license will be made available to applicants under reasonable terms and conditions that are demonstrably free of any unfair discrimination." Mr. Leland also provided FCC staff with a listing of all manufacturers that have signed the Memorandum of Understanding for Project 25, which requires such reasonable terms and conditions for licensing.

Mr. Leland supplied FCC staff with a copy of a request from Kathleen Wallman, Chair of the NCC, that Mr. Leland in his capacity as Chair of the Private Radio Section of the Telecommunications Industry Association (TIA) explore the possibility of developing a standard for the wideband channels in the 700 MHz public safety band, as well as a copy of his response committing to pursue this issue with the TR-8 committee at their next meetings on January 18-19. Copies of the correspondence between Ms. Wallman and Mr. Leland are attached to this filing.

Please contact Jeanine Poltronieri at (202) 371-6896 regarding any questions concerning this matter.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Richard C. Barth", with a long horizontal line extending to the right from the end of the signature.

Richard C. Barth
Vice President and Director
Motorola, Inc.

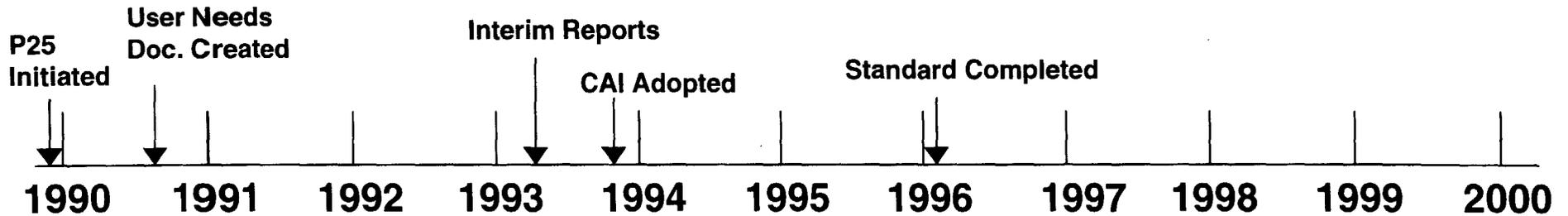
Attachment

Cc:

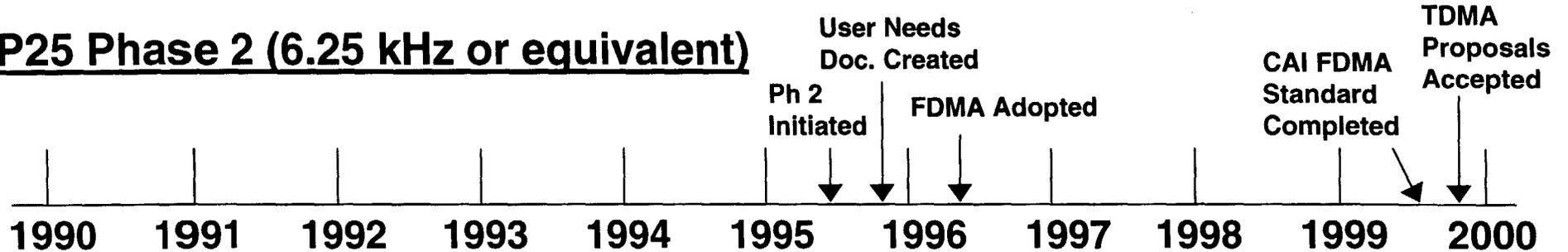
Thomas J. Sugrue, Chief, Wireless Telecommunications Bureau;
Kathleen O'Brien Ham, Deputy Chief, Wireless Telecommunications Bureau;
D'Wana Terry, Chief, PSPWD, Wireless Telecommunications Bureau;
Jeannie Kowalski, Deputy Chief, PSPWD, Wireless Telecommunications Bureau;
Mark Rubin, Legal Advisor, Wireless Telecommunications Bureau;
Kathy M.H. Wallman, Chair, National Coordination Committee;
Michael Wilhelm, Designated Federal Officer, National Coordination Committee

Projects 25 and 34 Timelines

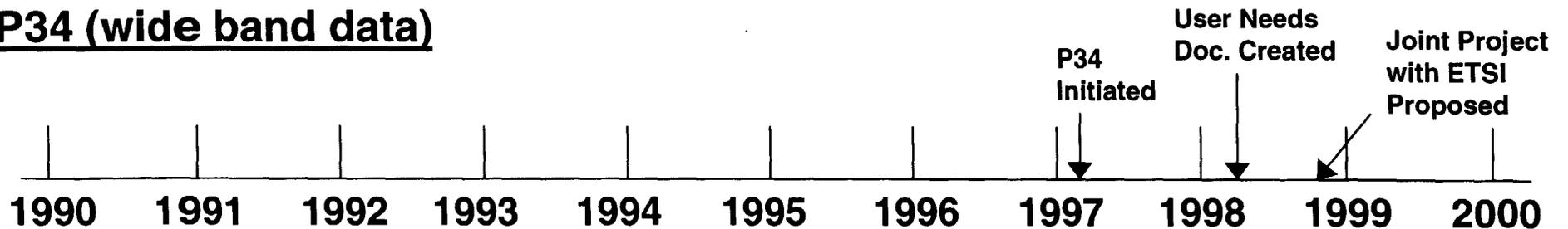
P25 Phase 1 (12.5 kHz)



P25 Phase 2 (6.25 kHz or equivalent)



P34 (wide band data)





MOTOROLA

**Spectrum and Standards
Commercial, Government and Industrial Sector**

Thursday, January 6, 2000

Mr. Michael Wilhelm
Federal Communication Commission
Wireless Telecommunications Bureau
445 12th Street SW
Washington, DC 20554

Dear **Mr. Wilhelm**,

This letter is in response to a request that Motorola restate our commitment regarding the ANSI/TIA/EIA 102.BAAA-1 Project 25 FDMA Common Air Interface intellectual property claimed by Motorola.

In compliance with this request, please consider this written assurance that Motorola is, and will continue to be, compliant with the ANSI Patent Policy regarding patents required for compliance with the ANSI/TIA/EIA 102.BAAA-1 Project 25 FDMA Common Air Interface standard. Specifically, for such patents and registered copyrights held by Motorola and required for compliance with the ANSI/TIA/EIA 102.BAAA-1 Project 25 FDMA Common Air Interface standard, "a license will be made available to applicants under reasonable terms and conditions that are demonstrably free of any unfair discrimination."

Sincerely,
Motorola Inc.

Steve Adler
Manager, Spectrum and Standards

cc: **Wayne Leland**
Glen Nash
Ellen O'Hara
Kathleen Wallman

Manufacturers Who Have Signed The IPR MOU

ADI Limited	Alliant Techsystems Inc.
AMP Incorporated	APREL Laboratories
Avtec, Inc.	Aware, Inc.
BK Radio Inc.	CML Technologies Inc.
RELM Communications	
COMARCO	Cycomm Corporation
Daniels Electronics Ltd.	Digital Receiver Technology, Inc.
DTC Communications Inc.	DVSI
E. F. Johnson Company	Ericsson
GEC - Marconi	GARMIN
Glenayre Electronics, Inc.	JPS Communications, Inc.
Kenwood Communications Corp.	Midland International Inc.
Modular Communications Systems	Motorola Inc.
NTT America, Inc.	ORBACOM Systems, Inc.
Racal Communications, Inc.	RITRON, INC.
Safetran Systems Corporation	SEA, Inc.
Securicor Communications Ltd.	Simoco Europe Ltd.
Standard Communications Corp.	Tait Electronics Inc.
Technisonic Industries Limited	Transcript International Inc.
US Tech	WABCO Railway Electronics.
Wulfsberg Electronics	Zetron, Inc.

40 Companies (39 Note EF Johnson and Transcript have merged)

January 6, 2000

Ms. Kathleen Wallman
Wallman Strategic Consulting, LLC
555 Twelfth Street, NW
Washington, DC 20004

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JAN 10 2000
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

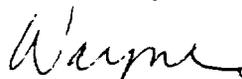
Dear Kathy:

Thank you for your letter of December 13 on behalf of NCC to me as chair of the TIA Private Radio Section requesting TIA's help to develop a wideband standard for public safety use in the new 746 MHz band for the wideband interoperability channels.

I apologize for not responding until now, but between the holidays, and Y2K activities, my time has been totally consumed. Your letter is very timely, as the next scheduled rounds of TIA Private Radio Section and TR-8 technical committee meetings are scheduled for January 17 – 19 in Mesa, Arizona. I will add this to the agenda for the section, and request that John Oblak, chair of TR-8, initiate activities to comply with your request.

Because this type of activity aligns directly with TIA work in support of public safety, I am confident that your request will be positively accepted. I will let you know the outcome of these meetings immediately.

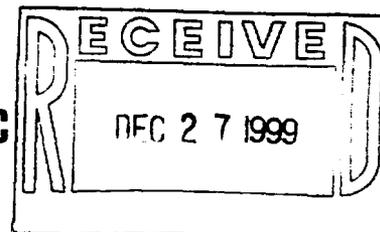
Sincerely,



Wayne Leland
Chair, Private Radio Section



Wallman Strategic Consulting, LLC
555 Twelfth Street, NW
Washington, DC 20004



Phone: 202.347.4864
Fax: 202.347.4861

December 13, 1999

Mr. Wayne Leland
Motorola
1301 E. Algonquin Rd.
Schaumburg, IL 60196

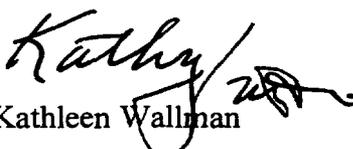
Dear Wayne:

I am writing to you in your capacity as chair of the Private Radio Section of the TIA TR-8 committee. As you know, the NCC is required to furnish the FCC with recommendations for technical standards for the wideband channels in the interoperability segments of the 700 MHz public safety allocation. These channels are 50 kHz wide and may be "stacked" to a maximum bandwidth of 150 kHz.

The FCC envisions that the wideband channels will be used for a variety of purposes including, for example, high speed data, near full motion video, transmission of "mug shots," fingerprints and other graphical materials. Although the NCC could become accredited as a standards developer to establish wideband channel standards, it is allowed by the FCC to base its recommendations on standards established by existing standards developers such as the TR-8 committee. Because the NCC's becoming an accredited standards developer would be a prohibitively time consuming process, and because TIA already has significant expertise in this area, the chair of the NCC technology subcommittee, Glen Nash, has suggested that TIA be approached to develop a wideband standard. In view of the excellent work that the TR-8 committee has done to date, I certainly endorse Glen's suggestion.

Would you explore with the TR-8 committee the possibility of developing a standard for the wideband channels in the 700 MHz public safety band? If the committee agrees to do so, it would be a great service to the NCC and the constituency it serves, as well as for the manufacturing industry which needs standards information before embarking on research and development of wideband equipment for public safety spectrum

Sincerely,


Kathleen Wallman