April 12, 1996

Mr. Glen Rumbold, Project Manager
Canadian Space Agency
Space Science Program
100 Sussex Drive, Room 1039
Ottawa, Ontario
Fax: (613) 952-0970

Re: Contract No. 9F007-5-8005/01-SR

Dear Glen:

I am writing to provide revised milestones for the second and third years of my CNSR Transition Contract, and an amended budget breakdown for Year 2.

The proposed work plan identified twelve studies in three areas to be addressed over the three-year duration of the contract. As you will have read in my draft annual report, many of the studies to have begun during Year 1 did not progress as planned. I would like to revise the timelines for some of these, inject milestones for two new studies into the plan, and remove a couple of studies that are no longer required.

Under the rubric of *F* layer patches, I wish to make the following changes:

- Convection inference study: begin May 1 1996, interim report December 31, 1996, conclude December 31, 1997 with final report and publication of results in a refereed journal.
- Cusp processes and patch formation study: begin January 1, 1997, *subject to suitable progress of convection inference study*, interim report August 31, 1997, conclude March 31, 1998 with final report and publication of results in a refereed journal. The ability to detect and characterize patches unambiguously, using both optical and radiowave techniques, is a prerequisite for this study. If and when undertaken, the study will build on the work of Prikryl et al., submitted to *Journal of Geophysical Research*, 1995, which was described in my 1995-96 Annual Report.
- Southward IMF control of convection study: begin September 1, 1996, interim report April 30, 1997, conclude January 31, 1998 with final report and publication of results in a refereed journal.

For polar cap aurora studies, the following changes:

- Extend the faint arc characteristics study to a conclusion date of November 30, 1996, with final report and publication of results in a refereed journal.
- Extend the polar auroras and magnetospheric topology study, with interim report February 28, 1997, concluding February 28, 1998 with final report and publication of results in a refereed journal.
- Delete the polar auroras as storm precursors study. A major US initiative is covering the same ground, and any effort in this area will be in the form of a contribution to that initiative.

For neutral atmosphere work, the following changes:

- Extend the polar mesopause wave spectrum study, with interim report 31 August 1996, concluding 31 May 1997 with final report and publication of results in a refereed journal.
- Postpone the remaining studies in this area (effects of stratospheric warmings, propagation of stratospheric disturbances, wave spectrum evolution) until the likely outcome of the wave spectrum study above is known. Once it is clear that these studies can be undertaken with the Polar Camera data, milestones will be submitted.

I have elected to increase my salary for the 1996-1997 contract year by the permitted 5%, to $37,800 per annum. The budget breakdown for the 1996-97 contract year is then:

PI salary:	($37,800 + 12% benefits) + 15% overhead	$48,686.40
Travel:	$2,510 + 2% overhead	$ 2,560.20
Materials:	$6,000	$ 6,000.00
Services:	$6,600	$ 6,600.00
Shipping:	$4,000	$ 4,000.00
Total:		$67,846.60

I calculate that I have $2,849.43 rolled over from 1995-96, plus a maximum of $65,000 for 1996-97, so the breakdown shown above should just fit within this envelope.

I hope that this information is satisfactory, and covers everything you need. Please let me know if you require any further information.

Yours truly,

David P. Steele