NiteOwl Proposal Requirements

PART I

§2.3: Brief statement from each student member of the Submission Team, giving educational background (degrees earned/in progress) and research experience (*e.g.*, "have worked / am working on XXXXXX project to measure YYY by means of ZZZ")

Focussed Executive Summary emphasizing science imperatives, unique measurement strategy, social and economic benefits, and training strategy (already implemented in proposal phase). Draw on present §1.2.

§1.2: Assessment of real prospects for measuring NO_3; either we can, and should say how, or we can't, and shouldn't mention it at all.

Assignment of references and collection of reference list for referenced and unreferenced statements in proposal, *e.g.*, §1.1, first paragraph.

Figure showing spectral effects of various absorbing and scattering species at various altitudes.

Final statements on:
- azimuthal and radial extents of sector over which tomography can be done;
- limiting magnitude for which 100:1 SNR is achievable;
- horizontal cell size for which tomography can be done, and the achievable accuracy in O_3, NO_2, NO_3 (?), and total densities.

Clarification on GPS data format: analog or digital?

§3: Focussing and clarifying NiteOwl in the Canadian and International Context.

§4: Answering questions and completing discussion of Required Theoretical and Modelling Support.

§5: Any more Required Support Measurements?

PART II

§2: How will fall speed affect achievable vertical resolution?

§3.1: Finalizing imaging spectrograph parameters.

§3.4.1: More information on possible data compression schemes and candidate hardware.

§5: More detail on Available Facilities.

§7.4: Insert Data Acquisition section; status?

§§8 - 9: Incorporate results of Management Plan team work; all prepared, just has to be inserted.

§10: Include Risk & Reliability team work; again, just has to be inserted.

§11: Develop and include words on **communication exercise** regarding NiteOwl and its benefits, and team's willingness to participate. Also, can we expand or strengthen the statement of benefits?