

Exhibit 1

1. Introduction

By the instant application (“Application”), ContiTech USA, Inc. (“ContiTech”) requests that the Commission grant a 2 year conventional experimental license to permit ContiTech to operate the facilities specified in the instant Form 442.

2. Purpose and Nature of Operation

In support of industrial, mining and bulk material transport applications, ContiTech seeks an experimental license to develop conveyor belt load monitoring solutions at the defined pilot location(s) outlined in the Application. The primary goal of this pilot project is to demonstrate and test possible sensing and processing configurations for improving the conveying efficiencies for mining companies, in order to support the future deployment of production grade systems. The hardware and software components necessary for accomplishing the goals of this pilot project have been fully defined through internal R&D projects. One hardware component is a current production automotive 77 GHz radar, which is specified in the instant Application.

The experiment will involve the installation of fixed radars at a position ~3 m above fixed conveyor belt line(s) pointing down towards the conveyor belt line. The radars will be angled down towards the conveyor belt to monitor the cross sectional area made by the material being conveyed. The purpose of the sensor is to determine an instantaneous cross section of the material being conveyed and also monitor the longitudinal belt displacement in order to determine the volume of the material being carried by the conveyor belt during its operation.

Waiver of the Station ID rules set forth at Section 5.115 is respectfully requested.

3. Bandwidth/Orientation

- | | |
|---|---|
| a) Width of beam in degrees at the half-power point: | 20° Elevation
150° Azimuth |
| b) Orientation in horizontal plane
(degrees from True North) | Various (directed to ground) |
| c) Orientation in vertical plane (degrees from horizontal) | 90 degrees +/- 6 degrees to
account for conveyor grade |

Note: Sensor should be
perpendicular to conveyor
belt aligned across transverse
dimension

4. Interference Mitigation

ContiTech is well aware of its obligations under Part 5 of the Commission's rules to avoid interference to co-channel operations in non-experimental services and will take all steps to ensure compliance with this obligation. ContiTech advises that the following will be available by wireless telephone and will act as "stop buzzers" if any issues regarding interference arise during testing.

Primary:	Bob Leib	1-937-707-7769
Secondary	Jack Wallace	1-937-707-7770

For the foregoing reasons, ContiTech respectfully submits that approval of this Application is in the public interest.