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Exhibit 1
Radar Level Detector

We propose to develop an RF based level detector to sell to manufacturers/distributors for packaging and resale to industrial users for determining the level of liquids and solids in process storage tanks.

Figure 1 is an outline of the Radar Level Sensor. Figure 2 shows a typical application in a liquid storage tank. The system operates at a frequency of 24 Ghz and an effective radiated peak power of +14dbm. The signal is cw with an fm modulation of 50Hz to 10KHz and bandwidth of plus-or-minus 125 MHz.

The radar sensor will be contained in a metal package mounted external to the tank. The RF signal will radiate directly into the tank through a low attenuation window, as shown in Exhibits 2 and 3. Most tanks will be made of metal; however, it is anticipated that some tanks will be made of fiber glass, which is relatively transparent to RF energy. Because of the low transmitted power (less than 1 milliwatt) and a directional antenna pointed directly toward the ground, interference with other RF devices in the area is deemed extremely unlikely.

It is anticipated that up to 3 units will be operating external to the Motorola facility in Scottsdale, and up to 15 more will be operating at various test sites throughout the United States, at public utilities and industrial plants. We believe that the device should be exempted under Part 15.103; however, if not, a separate 422 filing will be made for each site.

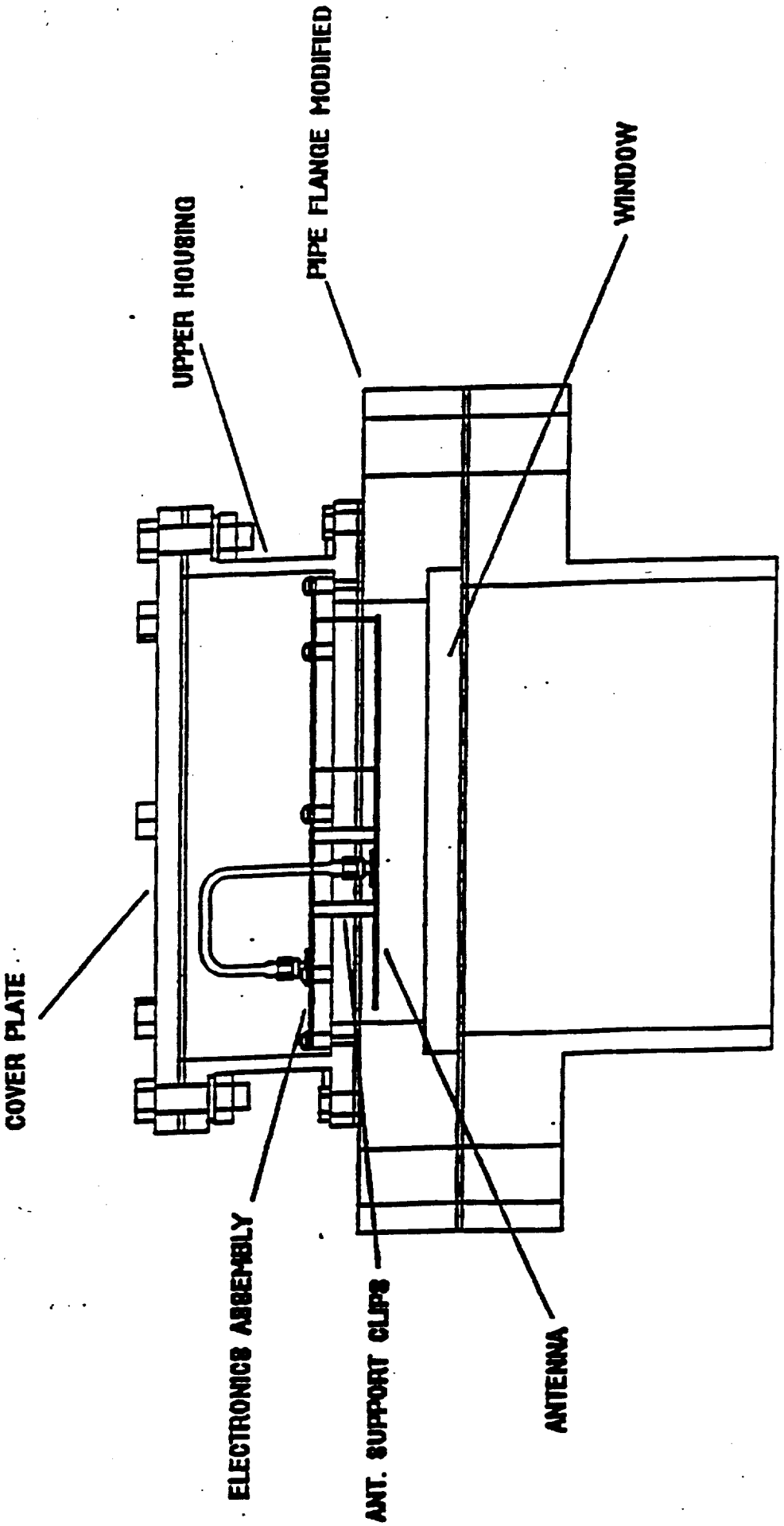
COVER PLATE
UPPER HOUSING
PIPE FLANGE MODIFIED
WINDOW
ELECTRONICS ASSEMBLY
ANT. SUPPORT CLIPS
ANTENNA

FIGURE 1

FIGURE 2

TYPICAL PROCESS TANK APPLICATION