Brookfield PAD—
DO 1990 - 1995

5.2.2.4.1 Lewiston Falls Project Post Operational Water Quality Monitoring (1990-1994)

Central Maine Power (CMP), the original Licensee of the Project, collected water quality data from 1990 to 1994 in accordance with Article 402 of the Lewiston Falls Project License. CMP worked in conjunction with USGS to operate two DO gages downstream of the Project, USGS Gage 010159010 Androscoggin River Below Dresser's Rips Near Lewiston, Maine (approximately 2.7 miles downstream of the Project) and USGS Gage 01056600 Androscoggin River at North Bridge at Lewiston Maine (located approximately 500 feet downstream of the Project).

The USGS has published the data from USGS Gage 010159010, which has a period of record from 1988 to 1995. The data includes mean daily DO and temperature from June through September. Table 5-5 provides a summary of the data recorded at this gage from 1990 to 1995. The table shows that the monthly average never fell below 6.5 mg/L requirement, even during the unusually dry conditions experienced in 1991.

The USGS has not published the data from USGS Gage 01056600. The data from this gage is included in the annual water quality monitoring reports submitted by CMP from 1990 to 1994. The 1994 report indicates that the monthly average never fell below 6.5 mg/L at this monitoring location (CMP, 1994).

The results of the DO monitoring at the two USGS gages indicate no adverse impact by the Project on the DO of the Androscoggin River. A January 23, 1995 Order terminated the water quality monitoring program after the 1994 study season when it was determined that the Project does not adversely impact on DO concentrations in the Androscoggin River.

Table 5-5   Average DO Downstream of the Lewiston Falls Project (mg/L)

Year	June	July	August	September	Season Average
1990	8.46	6.67	7.16	7.19	7.36
1991	7.16	6.54	8.08	8.85	7.63
1992	7.42	7.62	7.45	8.02	7.63
1993	8.18	7.02	8.14	7.83	7.79
1994	7.82	7.23	7.62	8.53	7.80
1995	7.75	7.54	7.49	7.97	7.60

Source: USGS Gage 010159010