

NEENAH PAPER, INC.

3460 Preston Ridge Road

Suite 600

Alpharetta, Georgia 30005

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REQUIRED INFORMATION

Financial Statements and Supplemental Schedule

Statements of Net Assets Available for Benefits as of December 31, 2008 and 2007.

Statement of Changes in Net Assets Available for Benefits for the Year ended December 31, 2008.

Supplemental Schedule H Schedule of Assets (Held at End of Year) as of December 31, 2008.

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NEENAH PAPER 401(k) RETIREMENT PLAN

**Financial Statements as of December 31, 2008 and 2007 and
for the year ended December 31, 2008**

NEENAH PAPER 401(k) RETIREMENT PLAN

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Note: All other schedules required by 29 CFR 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Plan Administrator and Participants of
Neenah Paper 401(k) Retirement Plan:

We have audited the accompanying statement of net assets available for benefits of the Neenah Paper 401(k) Retirement Plan (the Plan) as of December 31, 2008, and the related statement of changes in net assets available for benefits for the year ended December 31, 2008. These financial statements are the responsibility of the Plan s management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan s internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2008, and the changes in net assets available for benefits for the year ended December 31, 2008 in conformity with accounting principles generally accepted in the United States of America.

Our audit was conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule of assets (held at end of year) is presented for the purpose of additional analysis and is not a required part of the basic financial statements, but is supplementary information required by the Department of Labor s Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. The supplemental schedule is the responsibility of the Plan s management. Such schedule has been subjected to the auditing procedures applied in our audit of the basic 2008 financial statements and, in our opinion, is fairly stated in all material respects when considered in relation to the basic 2008 financial statements taken as a whole.

/s/ Frazier & Deeter, LLC

Atlanta, GA

June 29, 2009

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Plan Administrator and Participants of
Neenah Paper 401(k) Retirement Plan:

We have audited the accompanying statement of net assets available for benefits of the Neenah Paper 401(k) Retirement Plan (the Plan) as of December 31, 2007. This financial statement is the responsibility of the Plan's management. Our responsibility is to express an opinion on this financial statement based on our audit.

We conducted our audit in accordance with standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statement is free of material misstatement. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, such financial statement presents fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2007, in conformity with accounting principles generally accepted in the United States of America.

/s/ Deloitte & Touche LLP
Atlanta, Georgia
June 27, 2008

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| | As of December 31, | |
|---|----------------------|-----------------------|
| | 2008 | 2007 |
| ASSETS: | | |
| Participant-directed investments at fair value: | | |
| Interest in master trust | \$ 87,661,234 | \$ 122,434,933 |
| Loans to participants | 890,149 | 703,462 |
| Total investments | 88,551,383 | 123,138,395 |
| RECEIVABLES Other | 39 | 8,003 |
| Total assets | 88,551,422 | 123,146,398 |
| LIABILITIES Payables for securities purchased | 12,034 | 1,510 |
| NET ASSETS AVAILABLE FOR BENEFITS AT FAIR VALUE | 88,539,388 | 123,144,888 |
| Adjustments from fair value to contract value for fully benefit-responsive investment contracts | 391,175 | (195,553) |
| NET ASSETS AVAILABLE FOR BENEFITS | \$ 88,930,563 | \$ 122,949,335 |

See notes to financial statements

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NEENAH PAPER 401(k) RETIREMENT PLAN

Statement of Changes in Net Assets Available for Benefits

For the Year Ended December 31, 2008

| | |
|--|---------------|
| CONTRIBUTIONS: | |
| Participant | \$ 6,017,916 |
| Employer | 1,833,987 |
| Rollovers | 52,340 |
| Total contributions | 7,904,243 |
| INVESTMENT INCOME (LOSS) | |
| Net loss from interest in Master Trust | (32,225,482) |
| Interest income from participant loans | 58,350 |
| Net investment loss | (32,167,132) |
| Total Loss | (24,262,889) |
| BENEFITS PAID TO PARTICIPANTS | (9,724,939) |
| ADMINISTRATIVE EXPENSES | (30,944) |
| DECREASE IN NET ASSETS | (34,018,772) |
| NET ASSETS AVAILABLE FOR BENEFITS | |
| Beginning of year | 122,949,335 |
| End of year | \$ 88,930,563 |

See notes to financial statements

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NEENAH PAPER 401(k) RETIREMENT PLAN

Notes to Financial Statements

NOTE 1 DESCRIPTION OF THE PLAN

The following description of the Neenah Paper 401(k) Retirement Plan (the Plan) is provided for general information purposes only. Participants should refer to the Plan document for more complete information.

General The Plan is a defined contribution plan established December 1, 2004, by Neenah Paper, Inc. (the Company). The Plan Administrative Committee of the Board of Directors of the Company controls and manages the operation and administration of the Plan. Vanguard Fiduciary Trust Company (the Trustee) serves as the trustee of the Plan and of the Neenah Paper Defined Contribution Master Trust (the Master Trust), through which the Plan is funded. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA), as amended.

Eligibility An employee of the Company or a participating employer, as defined by the Plan, is eligible to participate in the Plan upon his/her date of hire.

Contributions Each year, non-highly compensated and highly compensated participants may contribute up to 75% and 17%, respectively, of their annual pretax compensation, as defined in the Plan, subject to certain Internal Revenue Code (IRC) limitations. Participants are also allowed to contribute after-tax contributions not to exceed 75% of annual compensation for non-highly compensated employees and 17% of annual compensation for highly compensated employees. For the year ended December 31, 2008, the Company made matching contributions of 75% of the participant's pretax contributions or after-tax contributions up to the first 2% of such participant's compensation per pay period, and 50% of the participant's pretax contributions or after-tax contributions up to the next 3% of the participant's compensation per pay period. Company matching contributions are discretionary.

Participants may also contribute amounts representing distributions from other qualified defined benefit or defined contribution plans.

Participant Accounts Individual accounts are maintained for each Plan participant. Each participant's account is credited with the participant's contribution, the Company's matching contribution, and allocations of Plan earnings and charged with withdrawals and an allocation of Plan losses and administrative expenses. Allocations are based on participant earnings or account balances, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Investments Participants direct the investment of their contributions and Company matching contributions into various investment options offered by the Plan.

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The Neenah Paper Stock Fund and the self-directed brokerage accounts are two of the investment options available to participants. No participant may invest more than 25% and 50% of his/her account balance in the Neenah Paper Stock Fund and Self-Directed Brokerage Accounts, respectively, at any time.

Vesting Participants are vested immediately in their contributions plus actual earnings thereon. Vesting in the Company's matching contribution portion of their accounts is based on years of continuous service. A participant is 100% vested after three years of credited service, upon termination of employment with the Company if the participant has attained age 55, or upon death.

Participant Loans Participants may borrow from their fund accounts up to a maximum of \$50,000 or 50% of their account balance, whichever is less. The loans are secured by the balance in the participant's account and bear interest at rates commensurate with local prevailing rates at the time funds are borrowed as determined by the Plan administrative committee. Principal and interest on such loans are paid through salary withholdings over periods generally ranging from 1 to 4 years except that the repayment period for loans made for the purchase of a home may range from 1 to 10 years. These periods may be extended for leaves of absence due to military duty or disability.

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Payment of Benefits Upon termination of service or attainment of age 59 1/2, a participant may generally elect to receive a lump-sum amount equal to the value of the participant's vested interest in his/her account. A participant may make the following regular withdrawals, as defined by the Plan:

- (a) After-tax contributions, provided such amounts have been in the Plan for at least 24 months
- (b) Company-matching contributions, provided such amounts are vested and have been in the Plan for at least 24 months
- (c) Any participant contributions included within his/her rollover account.
- (d) Pre-tax voluntary contributions at age 59 1/2 or for financial hardship purposes.

Forfeited Accounts At December 31, 2008 and 2007, forfeited nonvested accounts totaled \$58,915 and \$22,281, respectively. These accounts will be used to either reduce future employer contributions or pay administrative expenses. For the year ended December 31, 2008, employer contributions were reduced by \$56,608 from forfeited nonvested accounts.

NOTE 2 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting The accompanying financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America.

Use of Estimates The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, and changes therein and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Risks and Uncertainties The Master Trust utilizes various investment instruments, including mutual funds, a common and collective trust fund, and common stocks. Investment securities, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the financial statements.

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Valuation of Investments and Income Recognition (Master Trust Fund) The Plan's investment in the Master Trust is presented at fair value, which has been determined based on the fair value of the underlying investments of the Master Trust. The Master Trust holds mutual funds and common stock securities in which the Plan participates. Shares of mutual funds and common stock are valued at quoted market prices, which represent the net asset value of shares held by the Plan at year-end. Units of the common and collective trust fund are determined by the Trustee, based upon the quoted market values of the underlying investments held by the fund. Participant loans are valued at the outstanding loan balances, which approximates fair market value.

Included in the Master Trust is an investment in the Vanguard Retirement Savings Trust, which is a collective investment trust fund that invests solely in the Vanguard Retirement Savings Master Trust (the Vanguard Master Trust). The underlying investments of the Vanguard Master Trust are primarily in a pool of investment contracts that are issued by insurance companies and commercial banks and in contracts that are backed by high-quality bonds, bond trusts, and bond mutual funds. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investment at contract value. Contract value represents contributions made to the fund, plus earnings, less participant withdrawals.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

Management fees and operating expenses charged to the Plan for investments in the mutual funds are deducted from income earned on a daily basis and are not separately reflected. Consequently, management fees and operating expenses are reflected as a reduction of investment returns for such investments.

Administrative Expenses Generally administrative expenses of the Plan are paid by the Company, except for various costs associated with processing participant loans or expenses associated with investments within the self-directed brokerage account which are paid by the Plan, as provided in the Plan document.

Payment of Benefits Benefit payments to participants are recorded upon distribution. At December 31, 2008 and 2007, there were no amounts allocated to accounts of persons who had elected to withdraw from the Plan but had not yet been paid.

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New Accounting Pronouncements In September 2006, the Financial Accounting Standards Board (the FASB) issued Statement on Financial Accounting Standard No. 157 (SFAS No. 157), *Fair Value Measurements*. SFAS No. 157 established a single authoritative definition of fair value, sets a framework for measuring fair value and requires additional disclosures about fair value measurement. SFAS 157 does not require new fair value measurements, but provides guidance on how to measure fair value by establishing a fair value hierarchy used to classify the source of the information. On January 1, 2008, the Plan prospectively adopted the provisions of SFAS 157 (see Note 3). The adoption of SFAS 157 had no effect on the statements of net assets available for benefits and the statement of changes in net assets available for benefits.

The financial statements reflect the adoption of FASB Staff Position No. 157-3, *Determining the Fair Value of a Financial Asset When the Market for That Asset is Not Active* (FSP 157-3), which was effective upon its issuance in October 2008. FSP 157-3 clarifies the application of SFAS No. 157 in a market that is not active and provides an example to illustrate key considerations in determining the fair value of a financial asset when the market for that financial asset is not active. The adoption of FSP 157-3 had no effect on the statements of net assets available for benefits and the statement of changes in net assets available for benefits.

On April 9, 2009, the FASB issued FASB Staff Position No. 157-4, *Determining Fair Value When the Volume and Level of Activity for the Asset or Liability Have Significantly Decreased and Identifying Transactions That Are Not Orderly* (FSP 157-4). FSP 157-4 provides guidance on (1) estimating the fair value of an asset or liability, financial and nonfinancial, when the volume and level of activity for the asset or liability have significantly decreased and (2) identifying transactions that are not orderly. FSP 157-4 reinforces that fair value is a current market-based measurement and not an entity-specific or hypothetical future market-based measurement. FSP 157-4 will be effective for interim and annual periods ending after June 15, 2009. Management does not expect the adoption of FSP 157-4 to have a material effect on the Plan s financial statements.

On May 28, 2009, the FASB issued Statement on Financial Accounting Standard No. 165, *Subsequent Events*, (SFAS No. 165). The objective of SFAS No. 165 is to establish general standards of accounting for and disclosure of events that occur after the balance sheet date but before financial statements are issued or are available to be issued. Entities are required to disclose the date through which subsequent events were evaluated as well as the rationale for why that date was selected. SFAS No. 165 will be effective for interim or annual periods ending after June 15, 2009. Management does not expect the adoption of SFAS No. 165 to have a material effect on the Plan s financial statements.

NOTE 3 FAIR VALUE MEASUREMENTS

On January 1, 2008, the Plan adopted SFAS No. 157 which establishes a framework for measuring fair value. SFAS No. 157 provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements). The three levels of the fair value hierarchy under FASB Statement No. 157 are described below:

- Level 1 Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.
- Level 2 Inputs to the valuation methodology include:
- Quoted prices for similar assets or liabilities in active markets;

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- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability;
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

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The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2008:

| | Assets at Fair Value as of December 31, 2008 | | | | Total |
|--------------------------------|--|---------------|------------|---------------|-------|
| | Level 1 | Level 2 | Level 3 | | |
| Mutual funds | \$ 66,552,745 | \$ | \$ | \$ 66,552,745 | |
| Neenah Paper common stocks | 1,402,637 | | | 1,402,637 | |
| Common collective trust | | 26,253,227 | | 26,253,227 | |
| Self-directed brokerage option | 747,212 | | | 747,212 | |
| Participant loans | | | 890,149 | 890,149 | |
| Total assets at fair value | \$ 68,702,594 | \$ 26,253,227 | \$ 890,149 | \$ 95,845,970 | |

The table below sets forth a summary of changes in the fair value of the Plan's Level 3 assets for the year ended December 31, 2008.

Level 3 Assets as of December 31, 2008

| | | Participant loans |
|---|-------------------|-------------------|
| Balance | January 1, 2008 | \$ 703,462 |
| Purchases, sales, issuances and settlements net | | 186,687 |
| Balance | December 31, 2008 | \$ 890,149 |

NOTE 4 INVESTMENT IN MASTER TRUST

Except for participant loans, the Plan's investment assets are funded through the Master Trust. The Master Trust was established by the Company and is administered by the Trustee. Use of the Master Trust permits the commingling of the Plan's assets with the assets of the Neenah Paper Retirement Contribution Plan for administrative purposes. Although assets of both plans are commingled in the Master Trust, the Trustee maintains supporting records for the purpose of allocating the net gain or loss of the investment account to the participating plans. The net investment income of the investment assets is allocated by the Trustee to each participating plan based on the relationship of the interest of each plan to the total of the interests of the participating plans. As of December 31, 2008 and 2007, the Plan's percentage of interest in the Master Trust was approximately 93%.

The investments of the Master Trust at December 31, 2008 and 2007 are summarized as follows:

| | 2008 | 2007 |
|----------------------------------|---------------|----------------|
| Mutual Funds | \$ 66,552,745 | \$ 103,899,014 |
| Neenah Paper common stock | 1,402,637 | 2,522,282 |
| Common and Collective Trust Fund | 26,253,227 | 22,988,199 |
| Self-directed brokerage option | 747,212 | 1,385,258 |
| Total investments | \$ 94,955,821 | \$ 130,794,753 |

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For the year ended December 31, 2008, the net investment income (loss) of the Master Trust's investments is as follows:

| | | |
|--|----|--------------|
| Dividend and interest income | \$ | 3,198,569 |
| Net depreciation in fair value of investments: | | |
| Mutual funds | | (35,096,776) |
| Neenah Paper common stock | | (1,798,109) |
| Self-directed brokerage option | | (748,916) |
| Total investment loss | \$ | (34,445,232) |

NOTE 5 EXEMPT PARTY-IN-INTEREST TRANSACTIONS

Certain Plan investments held by the Master Trust are shares of mutual funds and units of a common and collective trust fund managed by the Trustee. As such, these transactions qualify as exempt party-in-interest transactions. Fees paid by the Plan for investment management services were included as a reduction of the return earned on each fund.

At December 31, 2008 and 2007, the Master Trust held 158,670 shares and 86,528 shares, respectively, of the Company's common stock (the sponsoring employer), with a cost basis of \$3,371,478 and \$2,912,189, respectively. During the year ended December 31, 2008, the Master Trust recorded dividend income from the Company of \$43,243.

NOTE 6 PLAN TERMINATION

Although it has not expressed any intention to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions set forth in ERISA. In the event that the Plan is terminated, participants would become 100% vested in their accounts.

NOTE 7 FEDERAL INCOME TAX STATUS

The Internal Revenue Service has determined and informed the Company by a letter dated December 17, 2008, that the Plan and related trust were designed in accordance with the applicable regulations of the IRC. However, the Plan has been amended since receiving the determination letter. The Company and Plan management believe that the Plan is currently designed and operated in accordance with the applicable requirements of the IRC. Therefore, no provision for income taxes has been included in the Plan's financial statements.

NOTE 8 RECONCILIATION TO FORM 5500

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The following is a reconciliation of net assets available for benefits per the financial statements to the Form 5500 as of December 31, 2008 and 2007.

| | 2008 | 2007 |
|--|---------------|----------------|
| Net assets available for benefits per the financial statements | \$ 88,930,563 | \$ 122,949,335 |
| Adjustment from contract value to fair value for fully benefit-responsive investment contracts | (391,175) | 195,553 |
| Net assets available for benefits per Form 5500 | \$ 88,539,388 | \$ 123,144,888 |

The following is a reconciliation of the total loss per the financial statements to the total loss per the Form 5500 for the year ended December 31, 2008.

| | |
|--|-----------------|
| Total loss per the financial statements | \$ (32,225,482) |
| Adjustment from contract value to fair value for fully benefit-responsive investment contracts | (586,728) |
| Total loss per Form 5500 | \$ (32,812,210) |

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NOTE 9 SUBSEQUENT EVENTS

On March 24, 2009, the Company approved a proposal to add an automatic annual escalation for new hires of 1% of compensation per year until the participants reach a contribution percentage of 12% of compensation. New participants are currently enrolled at 5% of compensation. On March 24, 2009, the Company approved the addition of a Roth retirement option to the investment options.

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Neenah Paper 401(k) Retirement Plan

**Form 5500, Schedule H, Part IV, Line 4i
Schedule of Assets (Held at End of Year)
As of December 31, 2008**

| (a) | (b) Identity of Issue, Borrower, Lessor or Similar Party | (c) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, and Par or Maturity Value | (d) Cost | (e) Current Value |
|-----|--|---|----------|----------------------|
| * | Various participants | Participant loans (with interest rates ranging from 4.0% to 8.25% and maturities through September 10, 2017) | ** | \$ 890,149 |

* Party-in-interest

** Cost information is not required for participant-directed investments and therefore is not included.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this Annual Report to be signed on its behalf by the undersigned hereunto duly authorized.

NEENAH PAPER 401(k) RETIREMENT PLAN

By: /s/ RICHARD F. READ
Richard F. Read
Member, Neenah Paper 401(k) Retirement Plan
Administrative Committee

Date: June 29, 2009