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**BEFORE THE  
POSTAL RATE COMMISSION  
WASHINGTON, D.C. 20268-0001**

**Postal Rate and Fee Changes**

**Docket No. R2006-1**

**DIRECT TESTIMONY OF  
RICHARD E. BENTLEY  
ON BEHALF OF  
MAJOR MAILERS ASSOCIATION  
DST MAILING SERVICES, INC.  
AND  
ASSOCIATION FOR MAIL ELECTRONIC ENHANCEMENT, INC.**

**September 6, 2006**

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1 **Direct Testimony of Richard E. Bentley**  
2 **On Behalf of**  
3 **Major Mailers Association**

4 **I. INTRODUCTION**

5 **A. Statement of Qualifications**

6 My name is Richard E. Bentley. I am currently a self-employed consultant  
7 with an expertise in postal ratemaking. My business address is REB Consulting,  
8 9133 Ermantrude Court, Vienna VA 22182.

9 I began my career as a market research analyst for the Postal Rate  
10 Commission in 1973 and remained there until 1979. As a member of the Officer  
11 of the Commission's technical staff (now the Office of Consumer Advocate), I  
12 testified before the Postal Rate Commission in four separate proceedings. Since  
13 leaving the Commission, I have testified before the Commission as a private  
14 consultant in every major rate case, most recently in Docket No. R2001-1, and  
15 the most recent major reclassification case, Docket No. MC95-1. I also  
16 represented MMA and took part in the last omnibus rate case, Docket No.  
17 R2005-1, although I did not file testimony. A more detailed account of my 30  
18 plus years of experience as an expert witness on postal ratemaking and  
19 classification is provided as Attachment I to this testimony.

20 I worked for Systems Consultants, Inc. from 1979 until 1981 as a senior  
21 program engineer on projects concerning our nation's defense. From 1982 until  
22 2005 I was President of Marketing Designs, Inc. Marketing Designs provided  
23 specialized marketing services to retail, commercial, and industrial concerns, as  
24 well as consulting services to a select group of private clients until its closing late  
25 last year.

26 I received a Bachelor of Science degree in Industrial  
27 Engineering/Operations Research from Cornell University in 1972. The following  
28 year I was awarded a Master's degree In Business Administration from Cornell's

1 Graduate School of Business and Public Administration. I am a member of Tau  
2 Beta Pi and Alpha Pi Mu engineering honor societies.

3 **B. Purpose of Testimony**

4 I am submitting testimony on behalf of Major Mailers Association (MMA), a  
5 group of very large First-Class workshared mailers that generally send out  
6 account statements and invoices on their own behalf or on behalf of others.  
7 MMA, has asked me to evaluate the Postal Service's proposed First-Class  
8 workshared mail rates in view of applicable statutory ratemaking criteria and  
9 relevant Commission decisions.

10 There are three areas of particular concern and importance to MMA: the  
11 rates and discounts applicable to workshared letters weighing one ounce or less,  
12 the rates for additional ounces, and establishment of shape based rates within  
13 First Class. Justification of First-Class bulk discounts is directly related to the  
14 Postal Service's proposal to "de-link" the rates for First-Class single piece and  
15 workshared rate categories. The other two First-Class issues concern the  
16 establishment of rates that better reflect cost causation.

17 In addition, MMA asked me to examine issues relating to the design of  
18 rates for High Volume QBRM and Confirm Service.

19 **C. Summary of Testimony**

20 My testimony discusses each of the rate proposals that impact large First-  
21 Class mailers. The most important issue concerns the long-run viability of  
22 workshared discounts. I support the specific workshared rates proposed by the  
23 Postal Service and applaud the Postal Service for seeking a more rational, less  
24 controversial approach to determine First Class workshared mail rates. While I  
25 have some reservations about how well the Postal Service's de-linking proposal  
26 will work in the long term, my analysis of the recent historical relationships  
27 between the rates for First Class single piece and Presort mail indicate that First  
28 Class rates based on the Postal Service's principles of de-linking exhibit a  
29 reasonable degree of stability that is likely to continue for the foreseeable future.

1           As a further “check” on the reasonableness of the specific workshared  
2 mail rates that are proposed using the Postal Service’s de-linking methodology, I  
3 have also used the Commission’s traditional methods for evaluating discounts  
4 based on derived cost savings. More specifically, I derive mail processing and  
5 delivery unit costs for each presort category and compare them to the  
6 corresponding unit cost for a nonworkshared benchmark mail piece.  
7 Accordingly, I find that the specific First-Class workshared mail rates proposed in  
8 this case are well supported, regardless of whether the Commission adopts the  
9 de-linking approach as I recommend, or sets discounts and rates based on a  
10 traditional cost savings approach.

11           In the course of examining the Postal Service’s rate filing, I discovered  
12 significant attributable cost shifts into First-Class presort letters between FY 2004  
13 and BY 2005. MMA is very concerned about this apparent cost shift because it  
14 has not been adequately explained or justified by the Postal Service. Intuitively,  
15 the costs of processing and delivering First Class workshared mail should, if  
16 anything, increase less than the costs for single piece mail, especially in light of  
17 the Postal Service’s efforts to shift additional worksharing tasks onto workshared  
18 mailers in general and high volume workshared mailers in particular. Such  
19 trends should reduce postal costs, not increase them as the Postal Service’s cost  
20 pool data shows.

21           I endorse the Postal Service’s proposal to provide a new First-Class rate  
22 structure that better reflects cost causation. I urge the Commission to accept the  
23 new shape-based rates for First-Class single piece and bulk and the concomitant  
24 lower additional ounce rates. Both proposals serve to reduce intra-class  
25 subsidies and bring revenues and costs much more in line with each other than  
26 ever before. As such, they represent a welcome improvement over the existing  
27 rate structure.

28           I have also reviewed the Postal Services proposals that impact QBRM. I  
29 strongly urge the Commission to reject the Postal Service’s proposed 22%  
30 reduction in the current QBRM discount. The Postal Service bases its proposal  
31 on a flawed and artificially narrow cost savings analysis that improperly

1 understates QBRM cost savings by more than 5 full cents. I recommend that the  
2 discount be increased to at least 4 cents. Similarly, the Commission should  
3 reject the Postal Service's proposal to increase the High Volume QBRM per  
4 piece fee, from 0.8 cents to 0.9 cents based on a new BRM Practices Study that  
5 suffers from the same problems associated with the 1997 BRM Practices Study.  
6 More reasonable and reliable information regarding procedures for counting High  
7 Volume QBRM leads me to conclude that the per piece fee should be reduced to  
8 0.5 cents or eliminated entirely.

9 Finally, the Postal Service proposes to completely overhaul the fee  
10 structure for Confirm Service. Currently, Confirm subscribers have a choice of  
11 three subscription levels, Silver, Gold, and Platinum. A Platinum Confirm  
12 subscriber pays \$10,000 per year and obtains information on an unlimited  
13 number of letter scans. The Postal Service proposes to eliminate the category  
14 that allows for unlimited scans and charge subscribers based on the number of  
15 scans they need.

16 Due to the shared benefits that mailers and the Postal Service derive from  
17 Confirm Service, the Commission should consider eliminating the usage fee  
18 altogether and make Confirm Service available at no extra charge (except for an  
19 annual account maintenance charge) as part of the Postal Service's premier  
20 First-Class service. In the alternative, I urge the Commission to reject the Postal  
21 service's proposed 49% revenue increase as well as changes to the fee  
22 structure. The current three tier fee structure, including the category of unlimited  
23 of scans, should be maintained.

#### 24 **D. Guide to Testimony and Supporting Documents**

25 As part of my testimony I am sponsoring three Category 2 library  
26 references which support the worksharing costs analyses presented for First-  
27 Class workshared letters. Library Reference MMA-LR-1 derives unit mail  
28 processing cost savings and combines these savings with the unit delivery cost  
29 savings that are derived separately in Library Reference MMA-LR-2. Library  
30 Reference MMA-LR-3 provides support for my conclusion that the Postal

1 Service's mail flow models significantly understate mail processing costs  
2 associated with the Remote Bar Code System (RBCS).

3 There are also two technical appendices attached to this testimony.  
4 Appendix I provides a technical discussion of my analysis that uses traditional  
5 methods for estimating cost savings that result from worksharing. Appendix II  
6 discusses issues related to the estimation of QBRM cost savings and derivation  
7 of the High Volume per piece cost.

8 In addition, I have two sets of workpapers. Workpaper MMA WP-1  
9 consists of historical postal data from which I have drawn some general  
10 conclusions about the manner in which costs behave. Workpaper MMA WP-2  
11 provides an analysis of QBRM costs under certain assumptions.

12 **II. SUPPORT FOR USPS PROPOSED FIRST-CLASS WORKSHARED**  
13 **DISCOUNTS**

14 In this case, the Postal Service proposes to increase the basic First-Class  
15 rate by 3 cents and to increase discounts by moderate amounts as shown in  
16 Table 1.

17 **Table 1**  
18 **USPS Proposed Workshared Discounts For Letters**  
19 **(Cents)**

| <b>First Class Workshared Letter Category</b> | <b>Current Discount</b> | <b>Proposed Discount</b> | <b>Proposed Increase</b> |
|---|-------------------------|--------------------------|--------------------------|
| NonAutomation                                 | 1.9                     | 2.0                      | 0.1                      |
| Mixed AADC                                    | 6.4                     | 7.4                      | 1.0                      |
| AADC  | 7.3                     | 8.5                      | 1.2                      |
| 3-Digit                                       | 8.2                     | 8.9                      | 0.7                      |
| 5-Digit                                       | 9.7                     | 10.8                     | 1.1                      |
| Carrier Route                                 | 10.0                    | 10.8                     | 0.8                      |

20  
21 The proposed discounts represent an average increase of 10.3% coupled with an  
22 absolute increase in rates of 6.4%. Given the extremely high implicit cost

1 coverage for First-Class workshared mail, an average increase that is somewhat  
2 below the 8.5% overall average is warranted.

### 3 **A. USPS “De-Link” Proposal**

#### 4 **1. De-Link Description**

5 USPS witness Taufique explains in detail his new and innovative proposal  
6 to “de-link” First-Class workshared rates and discounts from First-Class single  
7 piece. This potentially ends a decade-long conflict that has seen the Postal  
8 Service, intervenors and the Commission disagree on almost all aspects of the  
9 “method” for measuring workshared cost savings. Certainly, the Postal Service’s  
10 ongoing attempts since R97-1 to “refine” its workshared costs savings  
11 methodology in a manner that always seems to reduce derived cost savings  
12 have exacerbated the situation.<sup>1</sup> The de-link proposal is a welcome relief from  
13 the considerable controversy generated in recent omnibus rate cases. I applaud  
14 the Postal Service for bringing this long and unduly complicated conflict to an  
15 end.

16 USPS witness Taufique's de-link proposal consists of two parts. First,  
17 workshared discounts are to be determined by market-based factors as well as  
18 the derived *relative* cost differences among the various presort levels. Second,  
19 the Postal Service intends to establish a goal of equal unit contributions to  
20 institutional costs from First-Class single piece and First-Class Presort, in the  
21 aggregate.

22 There is no doubt that de-linking First-Class workshared discounts from  
23 derived cost savings greatly simplifies the Postal Service’s workshared  
24 rate/discount presentation. This alone is a significant benefit and encourages me  
25 to embrace the de-linking concept. It should also put an end to the Postal

---

<sup>1</sup> Recent attempts to reduce derived cost savings that were either rejected outright or partially by the Commission, or not addressed because of settlements, include: (1) assuming cost variability is much less than 100% (first introduced in R97-1), (2) assuming zero cancellation costs for BMM while leaving in cancellation costs for Automation letters (R2000-1), (3) assuming certain cost pools such as platform costs are nonworkshared-related (R2000-1), and (4) using a subcategory of Nonautomation letters as the benchmark from which to measure delivery costs savings (R2001-1).

1 Service's unenviable tactic of proposing discounts that **appear** to be greater than  
2 the estimated cost savings. Since R97-1, Postal Service costing witnesses have  
3 consistently understated workshared cost savings to such an extent that its rate  
4 witnesses were forced to disregard the cost analysis in favor of demand and  
5 market-based factors.

6 The de-linking of rates from derived cost savings also eliminates the  
7 inherent problems associated with mail flow models that attempt to compare unit  
8 costs on an **absolute** basis. Since R2000-1, the models have failed to  
9 accurately reflect the CRA-derived unit cost standards.<sup>2</sup> I have already testified  
10 about my reservations about using the models to measure cost savings,  
11 specifically savings that accrue because workshared letters bypass the Remote  
12 Bar Code System (RBCS) while nonworkshared letters do not.<sup>3</sup> Under the new  
13 proposal, the models no longer attempt to measure workshared cost savings  
14 from a nonworkshared benchmark, but are used only to derive the **relative** unit  
15 costs for each presort level. This solves one of the major criticisms I have with  
16 the Postal Service's use of its mail flow models.

17 The serious limitations of the mail flow models, particularly as they relate  
18 to costs incurred by the benchmark category within the RBCS, have greatly  
19 limited the usefulness of the models.<sup>4</sup> As demonstrated in Library Reference  
20 MMA-LR-3, the RBCS processing costs as reflected by the mail flow models are  
21 far too efficient. For example, when the metered mail letter (MML) model is  
22 adjusted such that 100% of the letters are assumed to be prebarcoded, the  
23 model-derived unit costs **increase** when they certainly **should decrease**.

---

<sup>2</sup> The models for Automation letters have always overstated the CRA-derived costs, while the models for BMM have always understated the CRA-derived benchmark. Since BMM must be processed through the Remote Bar Code System (RBCS), I have concluded that one conspicuous drawback of the models is an inability to accurately reflect costs associated with the RBCS.

<sup>3</sup> My R2001 surrebuttal testimony discussed this phenomenon at length when unit costs for letters that required RBCS processing (hand-addressed letters) and letters that bypassed the RBCS (QBRM) were derived and compared. See KE-ST-1, pages 7 – 17.

<sup>4</sup> Application of CRA Proportional Adjustment factors tends to correct for this deficiency, but problems still persist. The Postal Service's failure to recognize that its models understate RBCS costs causes it to misapply its CRA Proportional Adjustment factors, resulting in an understatement of the costs to process Nonautomation letters and an overstatement of the costs to process QBRM.

1 Accordingly, I urge the Commission to seriously consider developing First-Class  
2 workshared discounts that are no longer tied to a theoretical single piece  
3 benchmark.

4 The second aspect of the proposal to de-link rates and costs is a bit more  
5 problematic. The aim of equal contributions to institutional costs is simple to  
6 execute but lacks a degree of relevance. On the one hand, such a proposal  
7 tends to maintain the First-Class single piece/presort overall rate relationship  
8 through a fairly stable standard that reflects the combined attributes of several  
9 rate categories. In other words, the unit contributions in aggregate from both  
10 First-Class single piece and presort mail will be highly resistant to small year-to-  
11 year changes in cost-causing attributes. Certainly the vast volumes that reach  
12 nearly 100 billion pieces will act to cushion such changes. The unit contributions  
13 have been stable since at least FY 2000 (Tr. 16/4824) and are likely to remain so  
14 for the foreseeable future. Accordingly, to maintain the current rate relationship  
15 between First-Class single piece and presort, the Postal Service's equal  
16 contribution addendum is likely to achieve reasonable results, at least for the  
17 short term.

18 On the other hand, I have some reservations regarding the relevance of  
19 equal contributions *in the aggregate* from each of the First-Class categories.  
20 Given the significant differences in the mail characteristics that constitute the two  
21 categories, as well as certain cost components that are reflected but have no  
22 relevance to worksharing, I am concerned about how changes in factors such as  
23 shape and weight can modify this relationship over the long run. Consequently, I  
24 suspect that a comparison of contributions between similar shapes might prove  
25 to be a better means for setting the absolute level of workshared discounts from  
26 the First-Class single piece letter standard.

## 27 **2. De-Link Implementation**

28 Under the Postal Service's de-link proposal, the proposed discounts  
29 reflect the cost differences between each of the presort levels. However, the  
30 Postal Service's costing evidence improperly disregards important cost  
31 differences. Accordingly, I have made reasonable modifications to USPS witness

1 Abdirahman's mail flow cost models and USPS witness Kelley's delivery cost  
 2 analysis. Those modifications are explained in Technical Appendix I to my  
 3 testimony.

4 Following USPS witness Taufique's lead of using Mixed AADC letters  
 5 (MAADC) as the benchmark, I have computed unit costs and unit cost  
 6 differences in the same manner as he has done. See USPS-T-32 at 29-30.  
 7 Table 2 reproduces Mr. Taufique's computations and compares the incremental  
 8 percent passthroughs under both methods. Based on the percent passthroughs  
 9 that are well under 100%, it is apparent that my method of deriving cost savings  
 10 provides even more support for the USPS proposed discounts than the Postal  
 11 Service's methodology.

12 **Table 2**  
 13 **Comparison of MMA and USPS Incremental Percent Passthroughs**  
 14 **Under De-Linking<sup>5</sup>**  
 15 **(Cents)**

| <b>First Class Workshared Category</b> | <b>USPS Proposed Discount</b> | <b>USPS Proposed Incremental Discount</b> | <b>TY 2008 Total Workshared Unit Cost*</b> | <b>Incremental Unit Cost Savings</b> | <b>Incremental % Passthrough</b> |
|--|-------------------------------|---|--|--------------------------------------|----------------------------------|
| <b>MMA</b>                             |                               |   |  |                                      |                                  |
| Auto Mixed AADC                        | 7.4                           |   | 12.17                                      |                                      |                                  |
| Auto AADC                              | 8.5                           | 1.1                                       | 10.22                                      | 1.95                                 | 57%                              |
| Auto 3-Digit Letters                   | 8.9                           | 0.4                                       | 9.53                                       | 0.70                                 | 58%                              |
| Auto 5-Digit Letters                   | 10.8                          | 1.9                                       | 7.30                                       | 2.22                                 | 85%                              |
| <b>USPS</b>                            |                               |   |  |                                      |                                  |
| Auto Mixed AADC                        | 7.4                           |   | 6.47                                       |                                      |                                  |
| Auto AADC                              | 8.5                           | 1.1                                       | 5.32                                       | 1.15                                 | 96%                              |
| Auto 3-Digit Letters                   | 8.9                           | 0.4                                       | 4.93                                       | 0.40                                 | 100%                             |
| Auto 5-Digit Letters                   | 10.8                          | 1.9                                       | 3.63                                       | 1.30                                 | 146%                             |

\*Includes mail processing plus delivery for MMA, just mail processing for the Postal Service

Sources: MMA-LR-1, p. 1, USPS-LR-L-48, p. 1

16

<sup>5</sup> I note that certain computations shown in this table, as well as other tables in this testimony and appendices, may not be exact due to rounding.

1 Differences between MMA's unit workshared costs and those of the Postal  
2 Service, as shown in Table 2, are attributable to the following methodological  
3 changes:

- 4 ✓ Use of the PRC attributable costs (instead of the Postal Service's  
5 attributable costs)
- 6 ✓ Re-classification of certain nonmodeled unit cost pools as proportional  
7 with respect to presort level (instead of fixed)
- 8 ✓ Application of separate CRA Proportional Adjustment factors for  
9 Automation and Nonautomation (rather than one factor)
- 10 ✓ Inclusion of delivery cost savings (rather than assuming none exist)

#### 11 **B. Traditional Method for Measuring Workshared Cost Savings**

12 Using traditional methods for deriving workshare cost savings for First-  
13 Class letters, I confirm that the Postal Service's proposed discounts are justified.  
14 The standard yardstick for such an analysis is a comparison of the derived cost  
15 savings to the proposed discount amount, which computes to a percent  
16 passthrough. A reasonable goal for computing percent passthroughs is that they  
17 should be less than 100%. This indicates that both the Postal Service and  
18 mailers enjoy the benefits of worksharing. Percent passthroughs of more than  
19 100% are acceptable under certain conditions but are often temporary and  
20 viewed with caution.

21 The results of my analysis, with the computed percent passthroughs of the  
22 derived cost savings, are shown below in Table 3.

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**Table 3**  
**Comparison of USPS Proposed Discounts and MMA Derived**  
**TY 2008 Cost Savings Using Traditional Methods**  
**(Cents)**

| <b>First Class Workshared Category</b> | <b>USPS Proposed Discount</b> | <b>MMA Derived Unit Cost Savings</b> | <b>Total % Passthrough</b> | <b>USPS Proposed Incremental Discount</b> | <b>MMA Derived Incremental Unit Cost Savings</b> | <b>Incremental % Passthrough</b> |
|--|-------------------------------|--------------------------------------|----------------------------|---|--|----------------------------------|
| NonAutomation                          | 2.0                           | 2.9                                  | 70%                        | 2.0                                       | 2.9  | 70%                              |
| Auto Mixed AADC                        | 7.4                           | 8.5                                  | 87%                        | 5.4                                       | 5.6  | 96%                              |
| Auto AADC                              | 8.5                           | 10.5                                 | 81%                        | 1.1                                       | 1.9  | 57%                              |
| Auto 3-Digit Letters                   | 8.9                           | 11.1                                 | 80%                        | 0.4                                       | 0.7  | 58%                              |
| Auto 5-Digit Letters                   | 10.8                          | 13.4                                 | 81%                        | 1.9                                       | 2.2  | 85%                              |
| Auto CR Letters                        | 10.8                          | 13.4                                 | 81%                        | 1.9                                       | 2.2  | 85%                              |

Source: MMA-LR-1, page 1

5

6 As shown in Table 3, the percent passthroughs can be computed two ways: (1)  
7 in total amounts from the single piece benchmark, and (2) incrementally from  
8 each succeeding rate category. In both situations, the discounts proposed by the  
9 Postal Service are lower than the derived cost savings and the percent  
10 passthroughs are less than 100%.

11 It is important to note that the specific discounts proposed by the Postal  
12 Service might not be optimal insofar as obtaining the most equitable percent  
13 passthroughs. For example, it could be considered more desirable to propose  
14 discounts that result in equal percent passthroughs. However, there are demand  
15 and market-based factors that need to be considered and I have decided to  
16 forego tinkering with small rate changes that could upset the break-even  
17 equilibrium that the Postal Service has worked so hard to achieve in this case.

18

1                   **C. Derivation of Workshared Unit Cost Savings for First-Class**  
2                   **Letters**

3                   There are two parts to the derivation of workshared unit cost savings: mail  
4 processing and delivery. Table 4 shows the methodology I use as a check on  
5 the reasonableness of the results produced by the Postal Service’s de-linking  
6 proposal in this case and compares it to the method approved by the  
7 Commission in R2000-1, the last litigated rate case. The table also compares  
8 MMA’s methodology to positions taken by the USPS in R2001-1 and R2005-1,  
9 both of which were settled, and in R2006-1. I have color coded the table to  
10 indicate where methods are consistent with the Commission’s analysis in R2000-  
11 1 (yellow) and where MMA’s method includes adoption of an element of the  
12 Postal Service’s methods (green).

13                   **1. Mail Processing Operations**

14                   The derivation of cost savings that result from worksharing is a complex  
15 undertaking. I begin with the Postal Service’s analysis presented in Library  
16 Reference USPS-LR-L-110, which replicates USPS witness Abdirahman’s  
17 workshared cost savings analysis using the Commission’s attributable cost  
18 methodology. Based on that analysis, I make several changes that I believe are  
19 necessary in order to achieve reliable and reasonable results. The analysis of  
20 mail processing worksharing cost savings is provided in Library Reference MMA-  
21 LR-1.

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**Table 4  
Comparison Of Workshared Cost Savings Analyses**

| <b>Issue</b>                       | <b>MMA R2006-1</b>  | <b>PRC R2000-1</b>  | <b>USPS R2001-1 and R2005-1</b>                                     | <b>USPS R2006-1</b>  |
|------------------------------------|---|---|---|--|
| <b>Mail Processing:</b>            |   |   |   |  |
| Costs Benchmark                    | PRC Attributable Costs<br>MML                                       | PRC Attributable Costs<br>Adjusted MML                              | USPS Attributable Costs<br>MML                                      | USPS Attributable Costs<br>NA  |
| Cost Pool Classification           | Worksharing Proportional,<br>Fixed                                  | Worksharing Proportional,<br>Fixed and Nonworksharing<br>Fixed      | Worksharing Proportional,<br>Fixed and Nonworksharing<br>Fixed      | Worksharing Proportional,<br>Fixed                                       |
| Automation & NonAuto Costs         | Combined from CRA and<br>Modeled to Separate                        | Taken Directly from CRA<br>and Separately Modeled                   | Taken Directly from CRA<br>and Separately Modeled                   | Combined from CRA and<br>Modeled to Separate                             |
| CRA Proportional Adjustment Factor | Applied Separately for<br>BMM, Auto and NonAuto<br>letters          | Applied Separately for<br>BMM, Auto and NonAuto<br>letters          | Applied Separately for<br>BMM, Auto and NonAuto<br>letters          | Derived and Applied for<br>all Presorted Letters<br>Combined, NA for BMM |
| DPS %s Derivation                  | Derived Separately for Auto<br>and NonAuto Letters from<br>Models   | Derived Separately for Auto<br>and NonAuto Letters from<br>Models   | Derived Separately for Auto<br>and NonAuto Letters from<br>Models   | Derived Separately for<br>Auto and NonAuto Letters<br>from Delivery Data |
| DPS %s Reconciliation              | Reconciled to Delivery Data   | Not Reconciled  | Not Reconciled  | Reconciled to Delivery<br>Data   |
| <b>Delivery:</b>                   |   |   |   |  |
| Benchmark                          | Single Piece Letters  | NonAuto Letters   | NonAuto Machinable Mixed<br>AADC Letters                            | NA   |
| Presort Categories                 | Unit Delivery Costs Derived<br>Separately for Each Presort<br>Level | Unit Delivery Costs Derived<br>Separately for Each Presort<br>Level | Unit Delivery Costs Derived<br>Separately for Each Presort<br>Level | Unit Delivery Cost<br>Derived for All Auto<br>Letters Combined           |

3

1 As shown in Table 4 above, I have made certain necessary modifications  
2 to the Commission's latest approved methodology in R2000-1. These revisions,  
3 which are based on the Postal Service's proposed methodology in R2001-1 and  
4 R2005-1, and the Postal Service's proposed methodology in this case, concern  
5 the following specific areas:

- 6 ✓ Benchmark
- 7 ✓ Cost Pool Classifications
- 8 ✓ De-averaging of Nonautomation and Automation Costs
- 9 ✓ Derivation of CRA Proportional Adjustment Factors
- 10 ✓ Delivery Point Sequencing Percentages

11  
12 The cost savings methodology shown in Table 4 builds upon the methodological  
13 approach utilized by the Commission and the Postal Service. A detailed  
14 explanation and rationale for the methodology employed within each of the areas  
15 listed above is provided in Technical Appendix I to my testimony.

## 16 **2. Delivery Operations**

17 The Mail delivery operation is the second major source of workshare cost  
18 savings. Recognition that significant cost savings accrue in the delivery  
19 operations and, therefore, should be included in the workshare cost savings  
20 analysis has been an integral part of the Commission's methodology since  
21 R97-1.<sup>6</sup>

22 Library Reference USPS-LR-L-67, sponsored by USPS witness Kelley,  
23 derives unit delivery costs by subclass and shape. This analysis confirms the  
24 fact that worksharing reduces delivery costs. Table 5 summarizes the Postal  
25 Service's unit delivery costs for First-Class letters. It shows the delivery cost  
26 savings for Nonautomation and Automation letters, and the cost savings for  
27 those two categories combined, which is what the Postal Service now calls  
28 "Presort."

---

<sup>6</sup> Starting in R2001-1, however, the Postal Service introduced a new wrinkle that essentially nullified all workshared cost savings that result from delivery. The Commission never ruled on this proposal because the case was settled, as was R2005-1.

1  
2  
3

**Table 5**  
**USPS TY 2008 Delivery Unit Costs And Workshared Cost Savings**  
**(Cents)**

|                             | (1)   | (2)  | (3)  | (4)                                    |
|-----------------------------|---|--|--|--|
| First-Class Letter Category | Unit Delivery Cost Per Orig Pc Without Collection | Unit Delivery Cost Without Collection Per Delivered Pc | Unit Delivery Cost Savings Per Delivered Piece | Unit Delivery Cost Savings Per Orig Pc |
| Single Piece                | 5.15  | 8.42   |  |  |
| Nonautomation               | 4.70  | 5.24   | 3.18   | 2.85                                   |
| Automation                  | 4.14  | 4.63   | 3.80   | 3.40                                   |
| Presorted                   | 4.16  | 4.65   | 3.77   | 3.38                                   |

Source: MMA-LR-2, pages 1 and 2, Response to MMA/USPS-T30-31 (Tr. 12/3507-8)

4

5 The information provided in Table 5 is quite revealing. Column (1) shows  
6 the Postal Service's derived delivery unit costs per originating piece, with single  
7 piece collection costs removed. Since about 60% of single piece letters are  
8 actually delivered by city and rural carriers, while about 90% of presorted letters  
9 are actually delivered, a direct comparison of the unit costs in Column (1) would  
10 be skewed and inaccurate. Accordingly, Column (2) shows the unit delivery  
11 costs per **delivered** piece. The unit costs in Column (2) can be compared in a  
12 meaningful way because they are all based on volumes actually delivered.  
13 Column (3) shows delivery unit cost savings per delivered piece between  
14 workshared letters and nonworkshared letters. From the data shown, it is  
15 apparent that single piece letters cost 3.18 cents more to deliver than  
16 Nonautomation letters and 3.80 cents more to deliver than Automation letters.

17 Since the workshared discounts apply to all workshared volumes  
18 (including those that are not delivered), it is necessary to spread the unit cost  
19 savings shown in Column (3) over all workshared volumes. To do this, the unit  
20 cost savings in Column (3) are multiplied by the percentage of workshared letters  
21 that are actually delivered. The results are shown in Column (4).

22



1 **III. USPS AND MMA RELATIVE WORKSHARED COST SAVINGS**  
 2 **COMPARED**

3 Table 7 compares the Postal Service's and MMA's proposed unit cost  
 4 differences among the First-Class presort letter categories. This table uses  
 5 Nonautomation letters as the benchmark for ease of comparison under the de-  
 6 link proposal. Note also that unit costs include both mail processing and delivery  
 7 cost differences and reflect different attributable cost methodologies.

8 **Table 7**  
 9 **Comparison of First-Class Presort Letter TY 2008 Unit Cost Differences**  
 10 **(Cents)**

| First-Class Presort Letter Category | USPS (USPS Cost Method)                  |                         |                               | MMA (PRC Cost Method)                    |                         |                               |
|-------------------------------------|--|-------------------------|-------------------------------|--|-------------------------|-------------------------------|
|                                     | MP & Del Unit Cost Per Originating Piece | Total Unit Cost Savings | Incremental Unit Cost Savings | MP & Del Unit Cost Per Originating Piece | Total Unit Cost Savings | Incremental Unit Cost Savings |
| Nonautomation                       | 11.00                                    |                         |                               | 17.80                                    |                         |                               |
| Mixed AADC                          | 10.61                                    | 0.38                    | 0.38                          | 12.17                                    | 5.63                    | 5.63                          |
| AADC                                | 9.47                                     | 1.53                    | 1.15                          | 10.22                                    | 7.58                    | 1.95                          |
| 3-Digit                             | 9.07                                     | 1.93                    | 0.40                          | 9.53                                     | 8.27                    | 0.70                          |
| 5-Digit                             | 7.77                                     | 3.23                    | 1.30                          | 7.30                                     | 10.49                   | 2.22                          |

Sources: USPS-LR-48, p. 1, USPS-LR-67, p. 1 and MMA-LR-1, p. 1 and MMA-LR-2, page 1

11  
 12 Table 7 illustrates several interesting results that are worth emphasizing.  
 13 First, there are significant differences between the savings reported for  
 14 Nonautomation letters. As discussed above and more fully in Technical  
 15 Appendix I, the Postal Service's failure to recognize that its mail flow models  
 16 understate costs for Nonautomation letters processed within the RBCS causes  
 17 the Postal Service to understate the unit processing cost for that category. As  
 18 Table 7 shows, the Postal Service's cost savings for Mixed AADC letters  
 19 compared to Nonautomation letters is only 0.38 cents. My calculations show a  
 20 savings of 5.63 cents. In other words, the Postal Service's underestimation of

1 Nonautomation costs erroneously reduces the cost savings between  
2 Nonautomation and MAADC letters by more than 5 cents.<sup>8</sup>

3 Second, the Postal Service's costs seem to indicate that Nonautomation  
4 and Automation MAADC letters exhibit very similar costs. In fact, a further  
5 breakdown of the unit cost differential amount of 0.38 cents shown above  
6 indicates that Nonautomation letters cost 0.17 cents less to process but 0.55  
7 cents more to deliver. See Library References USPS-LR-48, p. 1 and USPS-LR-  
8 67, p. 1. While the delivery aspect of this comparison is reasonable, the lower  
9 mail processing costs shown by the Postal Service for Nonautomation letters is  
10 not. Considering the facts that volume shifts have considerably reduced the  
11 number of 3/5 digit presorted letters within the Nonautomation category<sup>9</sup> and that  
12 all Nonautomation letters have to be processed within the RBCS, it is difficult to  
13 accept the notion that Nonautomation letters could possibly cost less to process  
14 than Automation MAADC letters.

15 USPS witness Abdirahman opined that "cost savings from presortation  
16 may have offset the costs required to apply a barcode to the average  
17 nonautomation mail pieces." Tr. 4/547. I find his "explanation" highly unlikely  
18 simply because the RBCS is not as efficient as the models seem to predict.  
19 Moreover, no mailer strives to prepare its mail to obtain the 2-cent  
20 Nonautomation discount when Automation discounts are so much higher.<sup>10</sup> At  
21 least in the case of large mailers like MMA members, a small portion of their  
22 letters is sent out as Nonautomation primarily because a problem with the  
23 address prevents the software from applying a prebarcode. These problems  
24 make it difficult for the Postal Service to successfully apply a full 11-digit barcode  
25 that is necessary for the letters to be processed by automation and eventually  
26 DPSed. This could mean that some part of the address was missing, inaccurate,

---

<sup>8</sup> This issue is explored in greater detail in my technical discussion of CRA Proportional Adjustment factors. See Technical Appendix I, pages 10-17.

<sup>9</sup> USPS witness Loetscher explains why Nonautomation volumes have become much less densely presorted over the past ten years. Tr. 7/1487.

<sup>10</sup> In order to qualify for Automation discounts, First Class workshared mailers are required to apply an 11-digit barcode to their letters. If that is not possible, no barcode is permitted and the letters default to the Nonautomation category.

1 or duplicated. As a result, such pieces have to be corrected by the Postal  
2 Service, which probably entails (1) processing through the REC system to obtain  
3 a barcode, (2) the application of a partial barcode (5-digit or 9-digit), and/or (3)  
4 manual processing. Nonautomation letters that cannot be properly barcoded will  
5 have to receive some manual processing, significantly raising the costs to  
6 process this mail.<sup>11</sup>

7 Finally, the unit cost savings shown in Table 7 indicate a significant  
8 difference in all of the incremental cost savings. USPS witness Taufique rejected  
9 a larger discount for 5-digit letters because the resulting incremental percent  
10 passthrough was 164%, a passthrough he was uncomfortable with. USPS-T-32  
11 at 33. His final proposed rate resulted in a percent passthrough of 146%. As  
12 Table 7 shows, however, under MMA's methodology the 5-digit incremental cost  
13 savings is 2.2 cents, which, as shown in Table 3 above, results in a very  
14 reasonable incremental passthrough of only 85 %.

#### 15 **IV. OTHER ISSUES**

16 There are several other issues that affect First-Class Presort mailers.  
17 These concern changes in the way that the In-Office Cost System (IOCS)  
18 collects and assigns tallies, shape-based rates proposed for First Class, First-  
19 Class additional ounce rates, QBRM rates, and fees for both QBRM and Confirm  
20 Service.

#### 21 **D. Data Collection Cost Shifts**

22 In reviewing the cost data in this case and making routine comparisons to  
23 BY 2004 costs in R2005-1, it became apparent that First-Class presorted letters  
24 exhibited much higher cost increases than other classes and rate categories. As  
25 shown in Table 8, the increase in attributable costs for First-Class Presort letters  
26 is much higher than for First-Class single piece and Metered Mail (MML) letters.

---

<sup>11</sup> The higher DPS % exhibited by Automation MAADC letters (80.8%) compared to Nonautomation letters (77.2%) also supports this proposition. See Library Reference MMA-LR-1, p. 2.

1 Similarly, in Standard Mail, the attributable costs for Standard regular letters have  
2 actually decreased, while the costs for ECR have gone up significantly.

3 For First-Class presort letters, the impact of this irregular and counter  
4 intuitive cost behavior is two-fold. First, all other factors being equal, the higher  
5 increase for Presort letters relative to MML tends to reduce derived cost savings  
6 under the traditional cost savings approach discussed in Section II above.  
7 Second, increasing costs for Presort by a disproportionate amount artificially  
8 reduces the computed implicit cost coverage compared to previous of years.  
9 Both of these factors concern MMA, particularly because the Postal Service has  
10 provided no adequate explanation or justification for the disproportionate cost  
11 shifts. Parties such as MMA could not know that a shift of costs from First-Class  
12 single piece to presorted letters had occurred until the Postal Service admitted,  
13 late in the discovery process, that changes to the IOCS preclude a realistic  
14 comparison of BY 2005 costs in this case to those just one year earlier. Tr.  
15 4/603-4; Tr. 9/2365-66.

16 Table 8 provides a comparison of the mail processing letter costs between  
17 BY 2004 and BY 2005.

18 **Table 8**  
19 **Comparison of Mail Processing Attributable Costs**  
20 **(PRC Attributable Cost Methodology, Cents)**

| Letter Rate Category | PRC Attributable Costs |         |                  |
|----------------------|------------------------|---------|------------------|
|                      | FY 2004                | FY 2005 | Percent Increase |
| Single Piece         | 13.35                  | 13.61   | 2.0%             |
| Metered Mail Letters | 12.64                  | 12.62   | -0.2%            |
| Presorted            | 4.50                   | 4.77    | 6.2%             |
| Standard Regular     | 4.52                   | 4.13    | -8.6%            |

Source: USPS-LR- K-99 L-99

21  
22 As Table 8 shows, the percentage increase in attributable costs for First-  
23 Class presort rose more than three times the increase for First-Class single  
24 piece, while at the same time, MML costs decreased slightly and Standard

1 regular costs decreased by almost 9%. The Postal Service has explained that  
2 the reduction in Standard regular costs and concomitant increase in ECR costs  
3 was due to a change in IOCS data collection and assignment procedures  
4 intended to solve problems associated with misidentification of Standard regular  
5 and ECR mail pieces. In contrast, the Postal Service has provided no  
6 explanation for the significant shift of attributable costs to First-Class Presort.  
7 After propounding several interrogatories and receiving contradictory and  
8 ambiguous responses,<sup>12</sup> all we know is that the Postal Service claims that BY  
9 2004 and BY 2005 costs cannot be compared because, “there was a change to  
10 the method used to collect and assign IOCS tallies.” See e.g. Tr. 4/531.  
11 Moreover, the Postal Service is not willing to admit that the “actual” costs  
12 increased or decreased in the amounts shown in Table 8, and fails to provide any  
13 indication of what the “actual” cost changes are. Tr. 18D/6235, 6238, 6239,  
14 6241-2, 6247. (Responses to MMA/USPS-14(D), 15(E), 16(C), 17(C), and 19(D))

15 My analysis indicates that, but for IOCS redesign and assuming no shift  
16 from single piece to workshared letters, attributable costs for First-Class letters  
17 would have been lower by \$146 million -- \$39 million for single piece and \$107  
18 million for presorted letters. See Exhibit MMA-1A. This factor alone, which is  
19 totally independent of worksharing, nevertheless serves to reduce derived  
20 workshared costs savings simply because presorted letter costs increase much  
21 more (6.2%) in relation to the benchmark MML costs (-.2%).<sup>13</sup>

22 I urge the Commission to find out why the IOCS redesign impacted First-  
23 Class letters as shown and to make sure that the new forms and procedures  
24 have been properly implemented without some sort of bias, particularly against  
25 First-Class presort letters.

---

<sup>12</sup> While failing to confirm MMA’s derived cost increases between R2005-1 TY 2006 and R2006-1 TY 2008, the Postal Service claimed that MMA’s computations were correct and that MMA’s computations were the most accurate available. In addition, the Postal Service failed to provide its own calculations. See responses to interrogatories MMA/USPS-T22-2-4 (Tr. 4/529-541) and MMA/USPS-T22-28-29 (Tr. 18C/6269-6275), which were followed up by MMA/USPS-14-19 (Tr. 18C/6234-6247), which were followed up by MMA/USPS-26-27 (Tr. 18C/6262-6265) and MMA/USPS-T22-53 (Tr. 4/603-4; 9/2365-66).

<sup>13</sup> The Postal Service cannot explain why BMM costs decreased by .2% when all single piece costs increased by 2%. See Tr. 18C/6264. (Response to MMA/USPS-27(B) – (D)).

1           **E. First-Class Shape-Based Rates**

2           In a long overdue move to reduce intra-class subsidies, the Postal Service  
3 has proposed new categories of First Class to allow rates to better track cost  
4 causation. To attain this goal, the Postal Service takes full advantage of shape  
5 as a cost driver in both First-Class single piece and bulk.

6                   **1. First-Class Single Piece**

7           The Postal Service proposes to charge all First-Class single piece 1-  
8 ounce mail based on the shape of the mail piece. This proposal seems  
9 eminently fair and is long overdue. Current rates charge the same basic rate  
10 regardless of shape, except for a nonmachinable surcharge assessed on the first  
11 ounce. The new rate structure will eliminate the nonmachinable surcharge in  
12 favor of separate rates depending upon whether the mail piece can be processed  
13 as a letter, flat or a parcel. Since each of these shapes have different processing  
14 and delivery costs, the new rate structure tends to allow rates to better track  
15 costs to an extent never before possible.

16           Shape-based rates also send appropriate economic signals to mailers to  
17 drive costs out of the postal system. Consider the specific case of a 1.6-ounce  
18 flat that consists of, say, 7 pages that could easily be folded to fit into a letter  
19 envelope. Currently, that flat pays the same rate as a letter of the same weight  
20 but the costs of processing and delivering the flat are significantly higher than the  
21 costs for a letter. The proposed rates will provide a direct, monetary incentive for  
22 mailers to replace flats with letters, whenever possible. The superior price signal  
23 sent by the Postal Service's proposal will benefit all mailers and the postal  
24 system.

25                   **2. First-Class Presort**

26           The Postal Service proposes to implement shape-based rates for bulk  
27 First-Class as well. The rates are already shape based for letters and flats, but  
28 now it proposes to establish a category for bulk parcels. As for First-Class single  
29 piece, this proposal makes sense and I urge the Commission to adopt a separate  
30 category for bulk parcels. However, after reviewing USPS witness Taufique's  
31 intended benefits for instituting rates that better track costs, I am concerned that

1 he has missed an important opportunity to foster this goal by his failure to  
2 consider that volume is a significant cost driver within the First-Class workshared  
3 category.

4 There can be no doubt that the postal costs to service one mailer who  
5 consistently sends out one million letters per day are considerably lower than to  
6 service 1,000 mailers that send 1,000 letters per day. The efficiencies  
7 associated with preparing and handling large volumes versus small volumes of  
8 letters are obvious since volume alone makes it possible for larger mailers to  
9 perform worksharing operations that Postal Service employees must ordinarily  
10 perform for smaller mailings. These functions include:

11 Mail Acceptance

12 Postage verification, including on-site MERLIN systems;

13 Consolidation of mailing statements;<sup>14</sup>

14 Electronic transmission of weight and volume data to Postal data  
15 centers, including the use of PostalOne!; and

16 Electronic transmissions of all postal paperwork, including the use of  
17 PostalOne!.

18 Traying letters

19 Preparing and applying Destination and Routing (D&R) labels,  
20 including the use of PostalOne!;

21 Weighing the trays; and

22 Presorting the trays of mail prior to placing them onto pallets or other  
23 containers.

24 Palletizing the trays

25 Stacking trays onto pallets;

26 Shrinkwrapping full pallets to secure trays during transport by the  
27 USPS;

28 Labeling pallets; and

29 Separating and presorting pallets prior to the point at which they are  
30 loaded onto trucks.

---

<sup>14</sup> I understand that MMA members routinely consolidate **hundreds** of individual mailing statements into one consolidated mailing statement for the benefit of the Postal Service.

1           Loading mail onto trucks

2           Moving full labeled pallets to the workshare mailer's loading dock;  
3           Loading pallets onto USPS trucks;  
4           Meeting USPS scheduling requirements; and  
5           Presorting trucks with presorted pallets.  
6

7 Consistent high volume mailings also serve to minimize postal transportation and  
8 related costs as well. Trucks can be filled at the mailer's location and sent  
9 directly to an airport or HASP and often directly to a destinating postal facility.  
10 Such mail bypasses intermediate processing locations and avoids operations  
11 such as cross docking and breakdown, re-sortation of trays onto pallets and  
12 shrinkwrapping the new pallets.

13           The current First-Class workshared rate structure does not directly take  
14 into account the cost sparing attributes that volume affords the Postal Service.  
15 As such, the one large mailer and the 1,000 small mailers described above could  
16 pay the exact same postage per piece. Yet the costs of delivering the letters are  
17 far different, resulting in a revenue generating pattern that for too long does not  
18 track costs. Given the vast technological changes that have taken place over the  
19 past decade, as well as the consolidation within the workshared industry, I urge  
20 the Commission to direct the Postal Service to consider volume as a specific cost  
21 driver to be reflected in the rates offered. Such a result could justify a small  
22 discount to mailers who send out large mailings combined with a small increase  
23 to mailers who send out small mailings. Since such a price signal reflects actual  
24 cost causation, the resulting rate structure would reduce the cross subsidization  
25 that is now apparent and provide much more equitable and efficient rates.

26           **F. First-Class Additional Ounce Rates**

27           The Postal Service's proposal for reduced additional ounce rates,  
28 particularly for letters, is long overdue. The degressive rate structure has long  
29 recognized that the second and third ounce requires much less effort to process  
30 than the first ounce, and the Postal Service's proposed rates reflect this reality

1 more than ever before. If anything, the Postal Service has not gone far enough  
2 in reducing the additional ounce rates for letters. Nevertheless, I urge the  
3 Commission to accept the Postal Service's proposal. The newly proposed  
4 additional ounce rates move in a direction that is entirely consistent with the  
5 Commission's actions and should be approved.

6 There are other reasons that support the Postal Service's 15.5 cent  
7 additional ounce rate for Presorted letters. Because the 15.5 cent additional  
8 ounce rate brings First Class Presort rates more in line with costs, it provides  
9 some disincentive for First-Class mailers to continue the practice of routinely  
10 splitting up their First-Class content from their advertising content, in order to  
11 take advantage of the much lower Standard automation rates for 2 and 3 ounce  
12 letters. The current additional ounce rate sends entirely the wrong price signal  
13 since breaking up one First Class mailing into a First Class mailing and a  
14 separate Standard mailing results in lower postage for the mailer but ***much***  
15 higher costs for the Postal Service.<sup>15</sup>

16 MMA has informed me that a large mailer was recently faced with such a  
17 conundrum. The content to be mailed weighed less than 3 ounces. Some of the  
18 content had to be mailed at First-Class rates but the remaining portion could be  
19 mailed as either First Class or Standard mail. The volume totaled 1.8 million  
20 pieces. By spending an additional \$40,000 in labor and supply charges, the  
21 mailer was able to split each letter up into a First-Class letter weighing under one  
22 ounce and a second Standard letter that paid the minimum rate. The result was  
23 that the Postal Service processed and delivered twice the volume – 3.6 million  
24 pieces – and received \$400,000 less postage. This obviously inefficient practice  
25 needs to be discouraged. The proposed reduction for the additional ounce rate  
26 will make the practice of splitting up mailings much less attractive.

27

---

<sup>15</sup> In R2000-1, MMA witness Mury Salls explained this routine practice whereby mailers take full advantage of the flat rate offered for Standard Automation letters when contemplating a 2 – 3 ounce First-Class mailing with advertising content. See R2000-1, Exhibit MMA-T-3.

1           The lower additional ounce rate for First-Class presorted letters also  
2 impacts the industry-wide means for monitoring postage called “selective  
3 inserting.” This practice insures that the weight of a letter does not exceed the  
4 one ounce price point. If an advertising insert triggers additional postage, mailers  
5 will make a specific determination to either (1) pay the additional postage, (2)  
6 postpone insertion of the advertising piece, or (3) forego advertising by mail in  
7 favor of alternative methods of reaching their customers. The second and third  
8 choices are potentially harmful to the Postal Service. Advertising generates  
9 additional First Class mail volume which could be temporarily or permanently  
10 lost.

11           Finally, the lower additional ounce rate for presorted letters is consistent  
12 with the USPS witness O’Hara’s revenue requirement established for such  
13 pieces. Given the exceedingly high implicit cost coverage for First Class  
14 workshared mail, which is still more than 300%, the lower additional ounce rate is  
15 consistent with reaching an overall First-Class cost coverage that is fair and  
16 equitable.

### 17           **G. QBRM Letters**

18           QBRM letters represent a very special type of First-Class single piece  
19 letter within the Postal Service. On the one hand, QBRM exhibits the same cost  
20 sparing attributes of Automation letters. These include a prebarcode, pre-  
21 approved addressing and outside envelope requirements compatible with  
22 automation, and a reliable and accurate address. In addition, QBRM letters are  
23 often delivered to a post office box in very large quantities. This attribute not only  
24 reduces incoming secondary sort costs but often eliminates delivery costs as  
25 well.<sup>16</sup> On the other hand, QBRM incurs extra costs associated with mail  
26 preparation operations, since they are deposited along with other First-Class  
27 single piece collection letters.

---

<sup>16</sup> Though very significant, delivery cost savings are not included in the measure of QBRM savings.

1 To reflect these special attributes, QBRM currently receives a 3.2-cent  
2 discount from the basic First-Class rate. The Postal Service proposes to reduce  
3 this discount to 2.5-cents. High Volume QBRM recipients also pay a per piece  
4 fee, which the Postal Service proposes to increase by 12.5%, from 0.8 cents to  
5 0.9 cents. I urge the Commission to reject both Postal Service proposals. I  
6 recommend that the QBRM discount be increased to *at least* 4.0 cents. The  
7 High Volume QBRM per piece fee should be eliminated entirely or be reduced to  
8 no more than 0.5 cents.

### 9 **1. QBRM Cost Savings**

10 The cost analysis supporting the QBRM discount was last approved by the  
11 Commission in R2000-1. The Commission's analysis compares the costs to  
12 process a specially prepared QBRM letter with the costs to process a similar  
13 letter that is hand-addressed (HAND letter). Cost savings are based on all  
14 processing operations from acceptance through the incoming secondary  
15 sortation operation, and primarily reflect the RBCS cost of barcoding HAND  
16 letters and the higher percentage of HAND letters (compared to QBRM letters)  
17 that must be processed manually throughout the mailstream.

18 Both QBRM and HAND letters enter the general mailstream with all other  
19 collection mail. QBRM is then separated from other mail using the special FIM  
20 marking that is recognized by automated equipment within the mail preparation  
21 operations or the RBCS. From that point on, QBRM is processed by automation.  
22 HAND letters remain combined with all other single piece letters and are  
23 processed through the RBCS where, to the extent possible, they are "read" by  
24 machines or off-site postal employees and have a barcode applied. From that  
25 point on, HAND letters are processed by automation (to the extent possible).  
26 The currently approved methodology estimates the unit costs for QBRM and  
27 HAND and computes the difference to derive the savings due to the special cost  
28 sparing features of prebarcoded, automation compatible QBRM.

29 The Postal Service's methodology for deriving QBRM cost savings is  
30 flawed for two reasons. First, the Postal Service method models QBRM and  
31 HAND letters only as far as the first outgoing sortation, thus ignoring entirely the

1 additional savings that accrue after that point in processing. Second, when the  
2 Postal Service reconciles its model derived results with the CRA, it applies the  
3 wrong CRA Proportional Adjustment factor to the QBRM model-derived unit cost,  
4 thereby understating the derived cost savings.

5 Correcting for both of these Postal Service errors results in a QBRM unit  
6 cost savings of 6.75 cents, a full 5.26 cents more than the savings derived by the  
7 Postal Service (1.49 cents). Accordingly, far from supporting a reduction in the  
8 QBRM discount, the evidence supports an **increase** in the discount to **at least**  
9 4.0 cents.

10 Technical Appendix II to my testimony provides a technical discussion of  
11 the shortcomings associated with the Postal Service's QBRM cost savings  
12 analysis, explains why that methodology severely understates actual cost  
13 savings, and demonstrates that actual QBRM unit cost savings exceed 6 cents.

## 14 **2. QBRM Per Piece Fee**

15 The Postal Service's proposal to increase the High Volume per piece fee  
16 by 12.5% is based upon a new, but flawed BRM Practices Study recently  
17 conducted by the Postal Service. See Library Reference USPS-LR-L-34.  
18 Among other things, that "study" estimates that 27% of all High Volume QBRM,  
19 more than 40 million pieces per year, is hand counted. With counting machines  
20 and weighing techniques that are more than 12 times as productive and readily  
21 available to all post offices, there is no excuse for hand counting High Volume  
22 QBRM letters. Certainly, the Postal Service must not be rewarded for such  
23 inefficiency.

24 Several considerations lead me to suspect that the Postal Service's  
25 estimate that 27% of high volume QBRM is hand counted is simply wrong. This  
26 is not the first time that the Postal Service has tried, and failed, to convince the  
27 Commission that it laboriously hand counts QBRM received in very large  
28 quantities day-in and day-out. Apparently the Postal Service has not learned  
29 from its past mistakes and history has repeated itself in the latest BRM Practices  
30 Study.

1 In R2000-1, USPS witness Campbell relied on a 1997 BRM Practices  
2 Study that was basis for the study relied upon by the Postal Service in this case.  
3 Back then, the BRM Practices Study led Mr. Campbell to conclude that 47% of  
4 QBRM volumes received in high quantities were counted manually. After this  
5 practice was seriously questioned, Mr. Campbell went back to the drawing board  
6 and, using the CBCIS and other data systems, obtained specific counting  
7 information for the top 77 High Volume QBRM recipients by means of a survey.  
8 Using this new information, I presented my own study that concluded only 11% of  
9 these pieces were hand counted. In that case, the CBCIS data proved that the  
10 BRM Practices Study results were not representative of High Volume QBRM  
11 recipients and the Commission agreed. It accepted my analysis of the CBCIS  
12 data and stated on page 552 of its Opinion:

13 The updated processing information supplied by Campbell shows  
14 results that implausibly seem to favor manual counting, the most  
15 inefficient counting method. (Tr. 14/6030) It is easy to believe that  
16 high volume offices would use the more efficient counting methods;  
17 it strains credulity to think that offices receiving large volumes  
18 would hand count most or all of the pieces...

19 In R2001-1, just a year later, USPS witness Miller conducted a more detailed  
20 survey of the top 151 High Volume QBRM recipients. He found that almost none  
21 (just 0.4%) of High Volume QBRM volumes were counted manually. I seriously  
22 question the reasonableness of the new sampling study that estimates 27% of  
23 today's High Volume QBRM is actually counted manually.

24 The Postal Service derives a unit cost of 0.458 cents for counting QBRM.  
25 Almost 90% of that cost figure is tied **directly** to the obviously erroneous  
26 assumption that 27% of all High Volume QBRM letters are counted manually.  
27 Had the Postal Service assumed the same productivity for counting such pieces  
28 by either weighing or counting machines, the unit cost would have been 0.087  
29 cents, a reduction of 81%.<sup>17</sup> As shown in Technical Appendix II, my analysis of

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<sup>17</sup> The unit cost reduction is similarly 81% using the Commission's attributable cost methodology rather than the Postal Service's methodology. See Library Reference USPS-LR-L-104.

1 QBRM counting costs indicates that the per piece unit costs for High Volume  
2 QBRM are very low, well under 0.10 cents.

3 For these reasons, I urge the Commission to reject the Postal Service's  
4 derived unit costs for counting High Volume QBRM. Instead of raising the per  
5 piece fee as the Postal Service proposes, the Commission should eliminate the  
6 per piece fee because the attributable costs are virtually zero. If the Commission  
7 is not prepared to eliminate the per piece fee, it should set the fee at 0.5 cents or  
8 lower. With an attributable cost that ranges from 0.012 to 0.070 cents, the  
9 implicit cost coverage of a 0.5 cent fee ranges from 714% to 4,166%.

#### 10 **H. Confirm Service**

11 Confirm Service is a relatively new "high tech" service provided by the  
12 Postal Service introduced as a result of MC2002-1. Confirm allows mailers the  
13 ability to track both their outgoing and incoming mail through scans that are  
14 recorded and reported as the letters are sorted on barcode sorters and other  
15 postal equipment. Subscribers routinely use information provided by Confirm to  
16 identify service problems and to provide better service to their customers.

17 The current Confirm rate structure offers three levels of subscription  
18 services, Silver, Gold and Platinum, depending on how many "scans" a customer  
19 expects to utilize. Platinum service, the most expensive level, entitles a mailer to  
20 receive information from an unlimited number of scans for a fixed price of  
21 \$10,000 per year. The Postal Service proposes to eliminate this top tier by  
22 introducing a new rate structure that charges on the basis of scans received,  
23 which subscribers purchase in blocks of 1 million scans.<sup>18</sup> Table 9 shows  
24 illustrative percentage fee increases faced by current Platinum level subscribers  
25 under the Postal Service's proposal for various blocks of 1 million scans.

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<sup>18</sup> For subscribers who use Confirm with First Class mail pieces, a "unit" is equal to one scan.

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**Table 9**  
**USPS Proposed Fee Increase For Confirm Service**

| Number of First-Class Scans (Millions) | Proposed Increase |
|--|-------------------|
| 100                                    | -12%              |
| 250                                    | 14%               |
| 500                                    | 58%               |
| 1,000                                  | 145%              |

Source: Tr. 14/3918-19

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4 The Postal Service’s proposed rates are also expected to generate a 49%  
5 increase in revenues compared to the current rates. Such an increase seems  
6 exceedingly high compared to the average proposed increase of just 8.5%, but  
7 USPS witness **Mitchum** characterizes the revenue requirement goal, that  
8 produces a cost coverage of 126%, as “modest”. As Mr. **Mitchum** explains, a  
9 “modest” cost coverage is desirable because “demand for the product has not  
10 met the forecast used in **MC2002-1**”. (See USPS-T-40, p. 19)

11 The Postal Service’s Confirm Service proposal in this case is problematic  
12 for several reasons. First and foremost, the proposed 49% increase in revenues  
13 seems exceedingly high for a new service that still is in its infancy. If the Postal  
14 Service is serious about increasing usage for this service, the magnitude of this  
15 increase is counterproductive. I am informed that existing Platinum subscribers,  
16 who face double and triple digit increases are considering curtailing or eliminating  
17 their use of Confirm.<sup>19</sup> Other mailers who are considering this service have  
18 suspended such plans, pending the outcome of this case.

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<sup>19</sup> One option under consideration is to use a sampling of scans rather than all scans as a means for reducing Confirm costs, if the proposed restructuring of the Confirm fee structure is implemented.

1 Second, the proposed fee schedule charges customers based on the  
2 number of scans required, which is counter to the manner in which costs are  
3 incurred. The evidence provided by the Postal Service indicates that the costs  
4 generated by providing Confirm **do not change** with the number of scans  
5 produced. In fact, according to USPS witness Page, 59% of the costs are totally  
6 fixed while the remaining costs, though categorized as variable, likewise bear no  
7 relationship to the number of scans produced.<sup>20</sup> Accordingly, the Postal  
8 Service's proposed rate structure is not cost based and sends the wrong pricing  
9 signals to the market.

10 Third, it appears that the proposed new pricing structure may not produce  
11 the revenues that the Postal Service has projected. Since the available data is  
12 inconsistent with the proposed fee structure, the Postal Service has engaged an  
13 exceptional amount of judgment in estimating the billing determinants and  
14 resulting revenues. Tr. 14/3926-7. Consequently, there is no way for the  
15 Commission to replicate or confirm the revenue projections.

16 Finally, it appears that the Postal Service may be missing a real  
17 opportunity here to cement its position as the premier service provider for  
18 businesses to reach their customers. As USPS witness Mitchum explains,  
19 Confirm Service is "an integral part of the Postal Service's overall effort to  
20 provide greater value to mailers." (USPS-T-40, p. 14) Mr. Mitchum is absolutely  
21 correct. Confirm Service can be a very useful tool, especially for larger mailers.  
22 As such, it can provide workshared mailers with a significant incentive for  
23 maintaining volumes within the postal system. But Confirm Service also provides  
24 a very important management tool for the Postal Service that pinpoints service  
25 problems and measures its ability to meet operational standards and service  
26 goals. There can be no doubt that Confirm Service is a win-win situation for both  
27 parties. The Postal Service must be very careful in its pricing structure to assure

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<sup>20</sup> USPS witness Page could not adequately explain why 41% of the costs are "variable" when they obviously do not relate to the number of scans. Such costs concern "help desk" costs, which more likely vary with the number of subscribers, and "travel" costs associated with promotional activities. Moreover, USPS witness Page could not explain why he categorized such costs as variable, other than to state that he was told to do so. See Tr. 15/4708, 4710. (Responses to MMA/USPS-T23-1 and 3)

1 that more, not fewer, mailers will take full advantage of the system that is now in  
2 place.<sup>21</sup>

3 My primary proposal is that, at least for First Class workshared mailers,  
4 the Commission should recommend outright elimination of the additional fees for  
5 blocks of 1 million scans. First Class Confirm subscribers would pay a fixed  
6 annual fee, for example of \$2,000,<sup>22</sup> to cover the costs of setting up and  
7 maintaining their accounts. Payment of this annual fee would entitle a Confirm  
8 subscriber to receive an unlimited number of scans.

9 Several reasons support adoption of my primary proposal. First, adding  
10 Confirm as an extra feature of First Class workshared mail would enhance the  
11 value of workshared mail, especially for very high volume mailers who are most  
12 likely to divert significant volumes of mail to electronic delivery and payment  
13 options. In addition to providing large mailers with a strong incentive to keep  
14 using the mails, my proposal is likely to attract additional subscribers by making  
15 Confirm more affordable for hundreds or even thousands of medium sized  
16 mailers. In contrast, the Postal Service's marketing approach of raising Confirm  
17 revenues by 49% will certainly discourage the entry of new subscribers, and,  
18 more than likely, cause current subscribers re-evaluate their decision to use  
19 Confirm service. Finally, the Postal Service's offering of Confirm as a separate  
20 service is out of step with the way competing delivery companies treat similar  
21 tracking services – as an integral, rolled-in feature of the delivery services they  
22 provide.

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<sup>21</sup> The Postal Service's proposal to increase Confirm fees also does not take into consideration the significant costs incurred by subscribers to organize and analyze the raw data provided by Confirm. Such costs play an important role in a potential subscriber's decision to sign up for the service.

<sup>22</sup> An annual fee of \$2,000 would generate several hundred thousand dollars from existing Confirm subscribers and perhaps even more from potential new subscribers. The annual fee revenues would help to offset the estimated \$1.2 million cost of providing Confirm Service. In any event, the necessary costs associated with providing Confirm Service are quite small in comparison to the huge institutional cost contribution that First Class workshared mailers make to the postal system.

1 As an alternative to eliminating the fee for Confirm scans, I recommend  
2 that the structure, including the “Platinum” subscriber level with unlimited scans  
3 be retained. The impact on current Confirm subscribers is far too great and the  
4 potential rate shock has not been adequately considered by the Postal Service.  
5 Moreover, the overall increase of 49% should be reduced. For a service that  
6 benefits both mailers and the Postal Service, the rate increase should be  
7 absolutely minimized.

8 Finally, I note that the Postal Service is proposing to eliminate existing  
9 DMCS language that allows the mailer and the Service to know when the clock  
10 starts to run on mailings. I urge the Commission to reject the Postal Service’s  
11 proposal to eliminate this “start-the-clock” provision. Subscribers can and do use  
12 Confirm data to identify areas in which the Postal Service is failing to meet its  
13 own delivery standards, to bring such problems to the attention of postal  
14 operations specialists, and to work cooperatively with the Postal Service to solve  
15 the bottlenecks and other causes of such problems. With the existing start-the-  
16 clock provision there is no question when a particular problem mailing was  
17 entered. Without such a provision, the usefulness of Confirm data could be  
18 compromised.

## 19 **V. SUMMARY AND CONCLUSIONS**

20 Based on the analyses in my testimony and technical appendices, my  
21 conclusions are as follows:

- 22 1. The Commission should recommend the Postal Service’s  
23 proposed discounts for First Class workshared mail.
- 24 2. MMA supports the Postal Service’s de-linking proposal and  
25 applauds the Service for seeking a simpler, less controversial  
26 method for setting workshared mail rates.
- 27 3. The Commission should adopt my adjustments to the USPS  
28 methods for supporting the First Class workshared discounts  
29 under de-linking. As shown in Table 2, a portion of which is  
30 reproduced below, the cost savings I have derived justify the  
31 discounts. All of the percentage passthroughs are well below  
32 100%.

| First Class Workshared Category | USPS Proposed Discount | USPS Proposed Incremental Discount | TY 2008 Total Workshared Unit Cost* | Incremental Unit Cost Savings | Incremental % Passthrough |
|---------------------------------|------------------------|------------------------------------|-------------------------------------|-------------------------------|---------------------------|
| MMA                             |                        |                                    |                                     |                               |                           |
| Auto Mixed AADC                 | 7.4                    |                                    | 12.17                               |                               |                           |
| Auto AADC                       | 8.5                    | 1.1                                | 10.22                               | 1.95                          | 57%                       |
| Auto 3-Digit Letters            | 8.9                    | 0.4                                | 9.53                                | 0.70                          | 58%                       |
| Auto 5-Digit Letters            | 10.8                   | 1.9                                | 7.30                                | 2.22                          | 85%                       |

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4. Application of a more traditional cost savings approach to setting discounts also supports the specific discounts proposed in this case. Should the Commission decide to retain its traditional cost savings approach, it should rely on the costs savings analysis presented in my testimony. As shown in Table 3, which is reproduced below, the cost savings I have derived justify the discounts. As with my de-linking analysis, all of the percentage passthroughs are well below 100%.

| First Class Workshared Category | USPS Proposed Discount | MMA Derived Unit Cost Savings | Total % Passthrough | USPS Proposed Incremental Discount | MMA Derived Incremental Unit Cost Savings | Incremental % Passthrough |
|---------------------------------|------------------------|-------------------------------|---------------------|------------------------------------|---|---------------------------|
| NonAutomation                   | 2.0                    | 2.9                           | 70%                 | 2.0                                | 2.9                                       | 70%                       |
| Auto Mixed AADC                 | 7.4                    | 8.5                           | 87%                 | 5.4                                | 5.6                                       | 96%                       |
| Auto AADC                       | 8.5                    | 10.5                          | 81%                 | 1.1                                | 1.9                                       | 57%                       |
| Auto 3-Digit Letters            | 8.9                    | 11.1                          | 80%                 | 0.4                                | 0.7                                       | 58%                       |
| Auto 5-Digit Letters            | 10.8                   | 13.4                          | 81%                 | 1.9                                | 2.2                                       | 85%                       |
| Auto CR Letters                 | 10.8                   | 13.4                          | 81%                 | 1.9                                | 2.2                                       | 85%                       |

Source: MMA-LR-1, page 1

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5. IOCS redesign has resulted in significant, disproportionate cost shifts to First Class workshared mail. The Postal Service has not provided an adequate explanation for these costs shifts. Accordingly, the Commission should require the Postal Service to demonstrate that these cost shifts are not the result of inherent bias in the new system for collecting and assigning tallies.

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6. The Postal Service's shape-based rate proposals within First Class allow rates to better track costs and send proper price signals to mailers.

- 1           7.     The Postal Service has not adequately recognized volume as a  
2           primary cost driver in its construction of rates proposed in this  
3           case.    The current one-discount-fits-all approach to First Class  
4           workshared mail discounts discriminates against many high  
5           volume mailers who perform additional worksharing that smaller  
6           mailers cannot and do not perform.  Workshared rates have not  
7           kept up with technological advancements associated with  
8           worksharing.  The Commission should direct the Postal Service  
9           to study the effects of consistently high volume mailings on cost  
10          savings and consider appropriate de-averaged workshared  
11          discounts in the next omnibus rate proceeding.
- 12          8.     The Postal Service's proposal to lower the additional ounce rate  
13          for First-Class single piece and workshared letters is long  
14          overdue and provides rates that are more shaped based than  
15          ever before.
- 16          9.     The Commission should reject the Postal Service's proposals to  
17          reduce the QBRM discount to 2.5 cents and to increase the High  
18          Volume per piece fee to 0.9 cents.  A proper analysis of the  
19          associated costs shows that the QBRM discount should be  
20          increased to *at least* 4 cents and the per piece fee should be  
21          eliminated entirely or reduced to 0.5 cents.
- 22          10.    The Postal Service's proposal to completely revamp the rate  
23          structure for Confirm Service is ill-conceived, unreasonable and  
24          should be rejected.  In view of the minimal costs associated with  
25          Confirm, this service should be provided as a service  
26          enhancement to First Class workshared mailers, subject only to  
27          payment of a reasonable annual fee.  Subscribers should be  
28          entitled to unlimited scans.  In the alternative, the existing three  
29          tier rate structure should be retained, especially the unlimited  
30          scan feature of Platinum level service, and the proposed 49%  
31          revenue increase should be reduced considerably.



1           In 1979, Mr. Bentley left the Postal Rate Commission to become a senior  
2 program engineer for Systems Consultants, Inc. (which later became Syscon  
3 Corporation), a national consulting firm. There, Mr. Bentley's responsibilities  
4 included the analysis and estimation of life cycle costs required to research,  
5 develop, manufacture, and maintain various weapon system programs for the  
6 Department of Defense. He developed cost estimating relationships and  
7 completed a computerized model for estimating future weapon system program  
8 costs.

9           In addition, Mr. Bentley testified before the Postal rate Commission in  
10 R80-1 concerning presorted First-Class mail rates and second-class within  
11 county rates.

12           After leaving Syscon in 1981, Mr. Bentley started his own company,  
13 Marketing Designs, Inc., which provided specialized marketing services to  
14 various retail, commercial, and industrial concerns as well as consulting services  
15 to a select group of clients. Marketing Designs, Inc. closed in 2005.

16           In R84-1, Mr. Bentley testified on behalf of the Council of Public Utility  
17 Mailers and the American Retail Federation in favor of an increased First-Class  
18 presort discount. At that time Mr. Bentley presented a methodology for  
19 estimating cost differences between processing First-Class single piece and  
20 presorted letters that eventually become the foundation for the Commission's  
21 "Appendix F" methodology for supporting First-Class presorted discounts.

22           In C86-3, Mr. Bentley testified on behalf of Roadway Package System  
23 concerning a proposed special rate increase for parcel post.

24           In R87-1 and R90-1, Mr. Bentley testified on behalf of the Council of  
25 Public Utility Mailers, the National Retail Federation, Brooklyn Union Gas, and  
26 other First-Class mailers. Mr. Bentley recommended and supported various rate  
27 discount proposals for presorted First-Class mail, and a lower fee for "BRMAS"  
28 business reply mail.

29           In R94-1, Mr. Bentley testified on behalf of Major Mailers Association with  
30 respect to several issues that concerned First-Class rates. These included the  
31 relationship between the proposed cost coverages for First and third class, the

1 rates for First-Class incremental ounces, prior year losses, and the Postal  
2 Service's changes to the Commission's city delivery carrier out-of-office cost  
3 methodology. In addition, Mr. Bentley worked on behalf of Brooklyn Union Gas  
4 to have the Postal Service's proposed tripling of the "BRMAS" BRM fee rejected,  
5 although he did not file any formal testimony.

6 In Docket Nos. MC95-1 and MC96-3, Mr. Bentley again represented Major  
7 Mailers Association. In MC95-1 he endorsed the overall classification concept  
8 proposed by the Postal Service for First-Class Mail and suggested that the First-  
9 Class second and third ounce rate be reduced for letter-shaped pieces. In  
10 MC96-3, Mr. Bentley compared the attributable costing approaches between the  
11 Postal Service and Commission and asked that the Commission require the  
12 Postal Service to provide the impact of proposed changes utilizing established  
13 attributable cost methodologies. This testimony was the impetus for RM97-1 and  
14 resulted in the Commission amending Rule 54(a)(1) to require the Postal Service  
15 to make such a cost presentation.

16 In R97-1, Mr. Bentley represented both Major Mailers Association and the  
17 Brooklyn Union Gas Company with two separate pieces of testimony. For Major  
18 Mailers, he recommended that the Commission reject the Postal Service's newly  
19 proposed cost attribution methodology, increase First-Class discounts and offer a  
20 reduced rate for 2-ounce First-Class letters. For Brooklyn Union, he endorsed  
21 the Postal Service's Prepaid Reply Mail concept, but asked the Commission to  
22 alter it slightly with two modifications.

23 In R2000-1, Mr. Bentley again appeared as a witness for Major Mailers  
24 Association and KeySpan Energy, previously known as Brooklyn Union Gas. In  
25 that docket, Mr. Bentley showed the workshare cost savings were greater than  
26 those derived by the Postal Service, and he recommended workshare discounts  
27 that reflected those cost savings. He also provided the Commission with the  
28 means for recommending a two-tiered QB RM fee based on the volume received.  
29 This proposal was originally suggested by the Postal Service, but its supporting  
30 analyses were so flawed that ultimately the Commission was forced to reject  
31 them in favor of Mr. Bentley's supporting evidence.

1           In R2001-1, Mr. Bentley appeared as a surrebuttal witness on behalf of  
2 Major Mailers Association and KeySpan energy. Mr. Bentley filed testimony in  
3 support of the proposed settlement in that case, particularly with respect to First-  
4 Class workshared and QBRM rates and fees, and in opposition to rebuttal  
5 testimony filed by the American Postal Workers Union.

6           In the last omnibus rate proceeding, R2005-1, Mr. Bentley again  
7 represented the interests of the Major Mailers Association. Mr. Bentley filed no  
8 testimony because that case was eventually settled by the parties.

9           In 1972, Mr. Bentley received a Bachelor of Science degree in Industrial  
10 Engineering/Operations Research from Cornell University. The following year  
11 Mr. Bentley was awarded a Master's degree in Business Administration from  
12 Cornell's graduate School of Business and Public Administration (now the  
13 Johnson Graduate School of Management). Mr. Bentley is a member of Tau  
14 Beta Pi and Alpha Pi Mu Engineering Honor Societies.

**Exhibit MMA-1A  
Estimated Impact of IOCS Redesign on First-Class Single Piece and Presorted Letters  
(PRC Cost Methodology)**

|                      | (1)                       | (2)                  | (3)                  | (4)                       | (5)                       | (6)                  | (7) (8)<br>With IOCS Redesign |                           | (9)                             |
|----------------------|---------------------------|----------------------|----------------------|---------------------------|---------------------------|----------------------|-------------------------------|---------------------------|---------------------------------|
| Letter Rate Category | BY 2004 Unit Cost (Cents) | BY 2004 Volume (000) | BY 2004 Cost (\$000) | BY 2004 Unit Cost (Cents) | BY 2005 Unit Cost (Cents) | BY 2005 Volume (000) | BY 2005 Cost (\$000)          | BY 2005 Unit Cost (Cents) | Unit Cost Ratio BY 2005/BY 2004 |
| Single Piece         | 13.3520                   | 40,932,061           | 5,465,243            | 13.3520                   | 13.6137                   | 39,317,031           | 5,352,497                     | 13.6137                   |                                 |
| Presorted            | 4.4973                    | 46,509,242           | 2,091,646            | 4.4973                    | 4.7743                    | 48,147,533           | 2,298,695                     | 4.7743                    |                                 |
| Total                |                           | 87,441,302           | 7,556,889            | 8.6422                    |                           | 87,464,564           | 7,651,193                     | 8.7478                    | 1.01221                         |

|   | (10)                      | (11)                       | (12)                 | (13)                            | (14)                             | (15)                           |
|---|---------------------------|----------------------------|----------------------|---------------------------------|----------------------------------|--------------------------------|
| Without IOCS Redesign and with Equal Increases for S.P. and Presorted |                           |                            |                      |                                 |                                  |                                |
| Letter Rate Category  | BY 2005 Unit Cost (Cents) | BY 2005 Total Cost (\$000) | BY Unit Cost (Cents) | BY 2005 Unit Cost Shift (Cents) | BY 2005 Total Cost Shift (\$000) | % Change in BY 2005 Total Cost |
| Single Piece  | 13.5150                   | 5,313,701                  | 13.5150              | 0.0987                          | 38,796                           | 0.7%                           |
| Presorted   | 4.5522                    | 2,191,763                  | 4.5522               | 0.2221                          | 106,932                          | 4.9%                           |
| Total   |                           | 7,505,464                  | 8.5811               | 0.1666                          | 145,728                          | 1.9%                           |

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|----------------------------|-----------------------|
| (1) USPS-LR-K-99, shp04PRC | (9) (8) / (4)         |
| (2) USPS-LR-K-99, shp04PRC | (10) (4) x (9)        |
| (3) (1) x (2) x .01        | (11) (6) x (11) x .01 |
| (4) (3) / (4) x 100        | (12) (12) / (6) x 100 |
| (5) USPS-LR-I-99, shp05PRC | (13) (8) - (12)       |
| (6) USPS-LR-I-99, shp05PRC | (14) (7) - (11)       |
| (7) (5) x (6) x .01        | (15) (14) / (11)      |
| (8) (7) / (6) x 100        |                       |

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**Appendix I**  
**Technical Discussion: Derivation of Workshared Cost Savings**

The source for derived workshared cost savings involves both mail processing and delivery operations. Savings from each operation are derived separately and then combined to derive total workshared-related unit costs. The difference between each individual workshared category's unit cost and the benchmark provides a traditional estimate of the unit cost savings. A detailed description of the derivation of mail processing and delivery unit costs follows.

**I. Derivation Of Mail Processing Cost Savings**

In order to derive unit cost savings by presort level for First-Class workshared letters, the methodology employed in MMA-LR-1 utilizes various portions of the methodologies previously provided by the Commission and Postal Service. Where appropriate, I have selected elements of the methodology that are consistent with positions that I have taken in the past.

My analysis focuses on the following six areas involved in the derivation of mail processing workshared-related unit costs:

- A. Attributable Cost Methodology
- B. Benchmark Mail Piece
- C. Cost Pool Classifications
- D. De-averaging Nonautomation and Automation Costs
- E. CRA Proportional Adjustment Factors
- F. Delivery Point Sequencing Percentages

**A. Attributable Cost Methodology**

Since R97-1, the Postal Service has endorsed its own version of attributable costs that assumes costs vary with changes in volume at less than 100%. The Commission has repeatedly rejected this premise and has preferred instead to base its recommended rates on an attributable cost methodology that generally assumes 100% cost variability. I have elected to use the Commission's costs in the expectation that the Commission will again reject the Postal Service's proposed costs.

1                   **B. Benchmark**

2           Selecting an appropriate benchmark from which to measure workshared  
3 cost savings has been extremely controversial to say the least. During the  
4 1980's and early 1990's, the Commission utilized average single piece letters as  
5 the basis for determining presort cost savings. Later in the 1990's, as  
6 worksharing became more sophisticated, particularly with widespread  
7 implementation of mailer applied barcodes and the Postal Service's investment in  
8 automation technologies, the Commission adopted bulk metered mail (BMM)  
9 letters as the worksharing benchmark.

10           BMM letters are assumed to be nonprebarcoded, "clean" letters with  
11 typewritten addresses that are faced and brought to the local post office in  
12 properly prepared trays. The Commission's related assumption is that BMM is  
13 the type of single piece mail most likely to convert to workshared mail and the  
14 type of single piece mail to which potentially some workshared mail might revert.

15           In R2000-1, more than six years ago, I argued that single piece metered  
16 mail letter (MML) costs should be the appropriate nonworkshared letter category  
17 from which savings should be measured. (R2001-1, MMA-T-1, pages 19-22) I  
18 reviewed the maturation of First-Class bulk letters and concluded that the  
19 Commission's initial hypothesis that BMM was the most likely single piece mail to  
20 migrate to bulk could not be substantiated. In the ensuing years, First-Class bulk  
21 has developed its own, unique identity which bears little relationship to single  
22 piece,<sup>1</sup> and the notion that substantial volumes of single piece mail can be  
23 converted to bulk workshared mail is even less realistic. Given the significant  
24 technological changes that have affected worksharing and mail preparation, the  
25 availability of electronic alternatives to First-Class mail, as well as the

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<sup>1</sup> Much of the "growth" in First Class workshared mail volumes has nothing to do with conversion of single piece mail to workshared. Instead, such growth results from increased business activities of existing workshare mailers.

1 restructuring and considerable consolidation among workshared mailers over the  
2 past few years,<sup>2</sup> using BMM as the benchmark is no longer appropriate.

3 There are six major cost attributes that constitute worksharing: volume,  
4 mail preparation, prebarcodes, presortation, mail-piece design and address  
5 hygiene. All of these attributes, which reflect required tasks for workshared  
6 mailers, reduce postal costs. Therefore it seems reasonable that in order to  
7 measure the cost impact of worksharing, the benchmark mail piece should  
8 include these attributes of worksharing, but only to the extent they are present for  
9 an average single piece letter.<sup>3</sup> Further, in order for the benchmark mail piece to  
10 be usable, accurate and relevant cost information must be readily available.

11 BMM does not meet these criteria for several reasons. First and foremost,  
12 there is no basis to assume that BMM letters, if they in fact exist, are the most  
13 likely mail to shift from single piece to bulk. Nor is it likely that workshared mail  
14 would revert to BMM – or that single piece mailers would voluntarily deposit their  
15 letters in prepared trays at a local post office. The proliferation and success of  
16 presort bureaus proves that most of the single piece mail that *theoretically* could  
17 convert to workshared has already done so. USPS witness Taufique also agrees  
18 with this assessment. He testified that BMM is no longer the type of mail most  
19 likely to convert to workshared mail. In fact, he believes that, if one were to  
20 utilize a benchmark, average single piece letters would be more appropriate. Tr.  
21 16/4932-3, 4937, 4939, 4946-7, 5039.

22 Second, workshared mailers, especially high volume mailers, have  
23 succeeded in converting their residual mail pieces to workshared status largely  
24 as a result of better address cleanliness software and procedures. MMA has  
25 informed me that, whereas these residual volumes constituted approximately 5%

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<sup>2</sup> In FY 2005, just 100 workshared letter permit numbers sent out more than 20 billion letters in PostalOne! equipped offices. That accounted for about 42% of the total presorted letter volume. See **Tr. 18C/6222**. (Response to MMA/USPS-5)

<sup>3</sup> It is apparent that a portion of “average” single piece currently incurs collection costs as part of the mail preparation cost attribute. Such costs are almost \$1 billion in the test year. To the extent such pieces can shift to the workshared category, some collection cost savings should be included in the analysis of workshared cost savings. The same is true for window service costs. Nevertheless, to be conservative, I have assumed that there are no collection or window service cost savings.

1 of their total mail volumes 5 years ago, today's residual mail has been reduced to  
2 just 1-2%. High volume mailers also now routinely give their small residual  
3 volumes to presort houses. This is another reason to conclude that most single  
4 piece letters that potentially could convert to workshared have already switched.  
5 Third, the concept of using BMM as the benchmark severely discounts the  
6 significant mail preparation cost savings that have become an integral part of  
7 worksharing. Not only do workshared mailers prepare their letters in sleeved,  
8 strapped and pre-labeled trays, but the trays are often shrinkwrapped, pre-labeled  
9 and presorted on pallets as well. The assumption that BMM mailers routinely and  
10 voluntarily bring their mail to the local post office in trays, as workshared mailers  
11 are **required** to do, unfairly denies First-Class workshared mailers credit for these  
12 cost sparing operations. Given the technological changes that have made mail  
13 acceptance procedures so efficient, the Commission should re-instate the inclusion  
14 of mail preparation cost savings because of "fairness and equity", as it did in its  
15 R87-1 Opinion. (p. 472)

16 Finally, there are no direct CRA costs available for BMM. Accordingly,  
17 both the Postal Service and the Commission routinely use the actual CRA costs  
18 of MML as a proxy for BMM costs. In R2000-1 the Commission reduced MML  
19 preparation cost savings by two-thirds to reflect its assumption that BMM is  
20 entered in full trays while MML is not. In the next two omnibus rate cases, the  
21 Postal Service did not adopt the Commission's adjustment. Instead, the Postal  
22 Service used MML costs (without adjustment) as a proxy for BMM costs, but then  
23 argued that MML costs overstated BMM costs.<sup>4</sup> In this case, the Postal Service  
24 is unwilling to confirm that its own CRA-derived BMM unit cost estimates in those

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<sup>4</sup> The Postal Service's argument failed to consider factors that tend to offset, to an unknown degree, the cost savings advantage that are assumed for BMM. By definition BMM is not prebarcoded. Since a significant portion of MML is prebarcoded, allowing letters to completely bypass the Remote Bar Code System, processing costs are lower for MML than for BMM. Moreover, unlike BMM, prebarcoded MML usually consists of pre-approved courtesy reply envelopes that rarely need to be forwarded or returned. According to USPS witness Taufique, as much as 15% of First-Class single piece letters are prebarcoded reply mail. Tr. 16/5038. On the other hand, BMM mailers often use address lists that tend to be unsupported and stale. All of these factors mitigate the mail preparation savings associated with BMM and could actually cause BMM to cost more than MML.

1 cases were accurate.<sup>5</sup> The Commission should not rely on a theoretical  
2 benchmark that affects almost 50 *billion* workshared letters if the Postal Service  
3 has such little confidence in its CRA-derived unit cost.

4 In reality, the CRA provides actual costs for only two categories of First-  
5 Class nonpresorted letters: all single piece letters and MML. First-Class single  
6 piece is truly heterogeneous, consisting of letters that cover the full spectrum of  
7 cost-causing attributes, including illegible hand-addressed “dirty” letters in need  
8 of manual processing and perhaps forwarding on one end of the spectrum, to  
9 prebarcoded, pre-approved courtesy reply envelopes that are completely  
10 machine processed on the other end. Generally, MML letters should be  
11 somewhat “cleaner” than all single piece letters and, as a result, exhibit  
12 somewhat lower processing costs.

13 As I predicted in R2000-1, more pervasive use of automation equipment,  
14 improved technology and more reliable scanning capabilities have reduced single  
15 piece letter processing costs relative to MML.<sup>6</sup> Table 1 below compares the unit  
16 processing cost of all single piece letters to those of MML from FY 1998 to FY  
17 2004.<sup>7</sup>

18 **Table 1**  
19 **Comparison of Historic CRA Single Piece Letter Costs**  
20 **(PRC Cost Method, Cents)**

| <b>First-Class Single<br/>Piece Letter<br/>Category</b> | <b>FY<br/>1998</b> | <b>FY<br/>2000</b> | <b>FY<br/>2004</b> |
|---|--------------------|--------------------|--------------------|
| All Single Piece  | 13.08              | 13.02              | 13.35              |
| Metered Mail  | 11.23              | 11.43              | 12.64              |
| Difference  | 1.85               | 1.60               | 0.71               |
| % Difference  | 16.5%              | 14.0%              | 5.6%               |
| Source: USPS-LR-  | I-137              | J-81               | K-99               |

21

<sup>5</sup> When asked to confirm historical comparisons of the BMM model-derived and CRA-derived unit costs, USPS witness Abdirahman claims that the comparisons could not be confirmed because “the actual costs of BMM were not known” and “[t]he proxy...does not reflect ‘actual’ BMM letters cost.” Tr. 4/551.

<sup>6</sup> See R2000-1, MMA-T-1, p. 21-22.

<sup>7</sup> BY 2005 data have been omitted because the Postal Service claims that, due to the IOCS redesign, such costs are not directly comparable to those in previous years.

1 As demonstrated in Table 1, the unit cost differences between processing  
2 average single piece and MML have been converging rapidly. In fact, the 1.85  
3 cents difference experienced in FY 1998 shrank by almost 2/3, to just 0.71 cents  
4 in FY 2004. As the unit cost difference between these two categories continues  
5 to shrink in the future, it may not matter which category is used as the  
6 appropriate benchmark.

7 My preferred benchmark mail cost is the average cost for all First-Class  
8 single piece letters. Using the average cost for all First-Class single piece letters  
9 makes good sense because it allows for an accurate measurement of the true  
10 average cost savings between a single piece letter that is not workshared and a  
11 workshared letter.<sup>8</sup> Therefore, a strong case can be made for using all single  
12 piece letters as the appropriate benchmark, as USPS witness Taufique has  
13 suggested. Tr. 16/4939. However, I still hesitate to use this benchmark in this  
14 case because of the perception that some portion of single piece letters is “dirty”  
15 and the workshared discounts have never reflected cost savings due to  
16 “cleanliness” in the past. This is also the more conservative approach.

17 Under the circumstances of this case, therefore, the most appropriate  
18 benchmark is one made up of “clean” single piece letters generally sent by  
19 nonhouseholds that are normally not prebarcoded, not faced properly, and not  
20 placed in trays that the mailer brings to a local post office. I use the only  
21 available CRA costs – those for MML – as a proxy for my proposed benchmark.<sup>9</sup>

### 22 C. Cost Pool Classifications

23 Classifying cost pools is an important element of the workshared cost  
24 savings analysis. In MC95-1, all cost pools were classified as relevant and

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<sup>8</sup> If workshared mailers include a CRM envelope in their outgoing mail pieces, the Postal Service requires them to be fully automation-compatible and prebarcoded with an 11-digit barcode on the envelope or insert. In other words, workshared mailers are required to make a portion of single piece mail extremely efficient to process but receive no credit for the resulting cost savings.

<sup>9</sup> In reality, this is the same benchmark used by the Postal Service in R2001-1 and R2005-1, and very close to the benchmark used by the Commission in R2000-1.

1 proportional to presort level. In R97-1, the Postal Service introduced the notion  
2 that some cost pools were proportional to presort level while others were “fixed”  
3 and, therefore, not related to presort level. Starting in R2000-1, the Postal  
4 Service began to eliminate certain cost pools altogether, a move that significantly  
5 reduced the derived absolute level of workshared cost savings.

6 There are sound reasons to include all cost pools in the cost savings  
7 derivation. As discussed in my R2000-1 direct testimony, the arguments I  
8 provided in opposition to removing any cost pools are still valid. See R2000-1,  
9 MMA-T-1, pages 16-17. First, the Postal Service’s data collection systems lose  
10 accuracy the more costs are disaggregated to lower levels. Therefore, sampling  
11 errors become more prevalent the further costs are broken down into their  
12 individual components. In addition, the cost pools have been further massaged  
13 and disaggregated according to shape, have average piggyback factors applied,  
14 and are then projected into the test year. All these data manipulations tend to  
15 cast doubt on the accuracy of individual cost pool values.

16 A second reason for including all cost pools in the cost savings analysis is  
17 the undeniable fact that historically, unit costs for Automation letters and the  
18 MML benchmark exhibit a relationship that contradicts the Postal Service’s  
19 hypothesis that certain cost pools have no impact on worksharing. If there was  
20 no relationship, then such costs should be close to one another and the  
21 computed differences should be fairly close to zero. I have reviewed data for  
22 what the Postal Service calls “nonworkshared-related, fixed” cost pools since  
23 R2000-1 BY 1998. For the five base years for which data is available, almost all  
24 of the computed differences for individual cost pools indicate that Automation  
25 costs are lower. In fact, when the differences for base years 1998, 1999, 2000,  
26 2004, and 2005 are added together, they are all positive, meaning that  
27 automation letters consistently exhibit lower costs than MML.

28 An example illustrates this point.<sup>10</sup> Consider the cost pool REWRAP,  
29 which measures costs to repair mail that has become damaged during

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<sup>10</sup> A similar analysis of other “nonworkshared-related, fixed” cost pools indicates that these are also positively impacted by worksharing. See MMA WP-1.

1 processing. The Postal Service has classified these costs as “fixed” with respect  
 2 to presort level and assumed that they are unrelated to worksharing. This  
 3 classification is unreasonable. The probability that a piece of mail will be  
 4 damaged increases with the number of times it must be handled during  
 5 processing. Therefore, it seems logical that workshared letters that do not  
 6 receive individual processing until further “downstream” than single piece letters  
 7 should incur lower REWRAP costs. This is in fact the case as shown in Table 2.

8 **Table 2**  
 9 **Summary of Historical REWRAP Unit Costs for MML and Auto Letters**  
 10 **(PRC Cost Method, Cents)**

| Base Year | MML   | Automation | MML - Automation |
|-----------|-------|------------|------------------|
| 1998      | 0.007 | 0.003      | 0.005            |
| 1999      | 0.010 | 0.002      | 0.009            |
| 2000      | 0.013 | 0.002      | 0.011            |
| 2004      | 0.014 | 0.001      | 0.013            |
| 2005      | 0.013 | 0.003      | 0.010            |
| Total     | 0.057 | 0.010      | 0.047            |

Sources: USPS-LR-I-137, I-482, J-84, K-99 and L-99

11  
 12 The only difference between the types of mail for which REWRAP unit  
 13 costs are shown in Table 2 is that Automation letters are workshared while MML  
 14 letters are not. If worksharing has no impact on REWRAP costs, then I would  
 15 have expected that, over the 5 base years, some of the cost differences would be  
 16 negative. Consistent positive differences between the costs for MML and  
 17 Automation letters indicate that worksharing reduces REWRAP costs.

18 All told, the cost data indicate that automation letters cost less to process  
 19 than MML in the cost pools that the Postal Service deems “nonworksharing  
 20 related fixed.” Therefore, there is no reason for eliminating these specific cost  
 21 pools from the cost savings analysis, especially since removing them artificially  
 22 reduces derived cost savings.

23 Notwithstanding the Postal Service’s speculations that certain cost pools  
 24 are unaffected by worksharing, the cost pools should not be eliminated from the  
 25 cost savings analysis. If worksharing does not affect a particular cost pool, then

1 the unit costs for Automation and MML letters will be close and the difference will  
2 add nothing to the derived cost savings. If cost differences do exist, then  
3 workshared mail deserves full credit for its cost sparing attributes.

4 Again, the REWRAP cost pool is illustrative. The R2006-1 BY 2005 cost  
5 differential between MML and Automation letters is quite small, only .01 cents, as  
6 shown in Table 2 above. Therefore, leaving such costs in the analysis has **no**  
7 **material impact** on the derived cost savings. However, when all such  
8 differences are added up across all the cost pools that the Postal Service omitted  
9 in R2000-1, R2001-1 and R2005-1, the total reduction in derived workshared  
10 cost savings is significant.<sup>11</sup>

11 The Commission dealt with a similar issue in the past. In R84-1, the  
12 Commission's "Appendix F" methodology for measuring presort cost savings  
13 included savings in incoming secondary operations. In R87-1, the Commission  
14 concluded that incoming secondary costs were unaffected by presorting and  
15 effectively eliminated approximately one full cent of derived presort savings. In  
16 MC95-1, the Commission reversed itself and included incoming secondary  
17 savings in the cost savings analysis. Indeed, it went further by including **all** in-  
18 office and out-of-office delivery cost savings.<sup>12</sup>

19 Accordingly, I start with two cost pool classifications: (1) cost pools that  
20 are proportional to presort levels, and (2) cost pools that are fixed as to presort  
21 levels. However, given the constraints of the mail flow models to simulate only  
22 certain types of costs, I have further divided the cost pool classifications  
23 according to whether they are reflected by the models. I have classified all cost  
24 pools reflected by the models as proportional to presort levels in the same

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<sup>11</sup> According to Postal Service data, the amount of workshared cost savings "lost" in R2000-1, R2001-1 and R2005 was 1.30 cents, .75 cents and .76 cents, respectively.

<sup>12</sup> The Commission specifically included all nonmodeled mail processing cost pools in its derivation of workshared cost savings indicating that the Postal Service's reasoning at the time was "intuitively sound." It went on to claim that it is "important" to understand such costs "as fully as possible." See MC95-1 Opinion And Recommended Decision, page IV-128. In the ensuing ten years, the Postal Service has provided little new information regarding such costs. In fact, the most complete analysis has been provided by Pitney Bowes witness Buc who concludes that more than 70% of the nonmodeled costs are proportional to presort level. See PB-T-2 and Library Reference PB-LR-L-1.

1 manner suggested by the Postal Service. The remaining nonmodeled cost pools  
2 are then divided into two groups, proportional and fixed.<sup>13</sup> The three cost pool  
3 classifications become: (1) modeled and proportional, (2) nonmodeled but  
4 proportional, and (3) nonmodeled and fixed. There are no nonworkshared-  
5 related cost pools. I have also assumed that nonmodeled proportional costs are  
6 proportional to the modeled costs; and that the fixed costs are fixed as to presort  
7 level but in relation to proportional costs. See Library Reference MMA-LR-1,  
8 pages 3 and 7.

#### 9 **D. De-averaging Automation and Nonautomation Costs**

10 In R2005-1, the accuracy of the CRA-derived unit costs for Automation  
11 and Nonautomation letters became a separate issue. As I understand the  
12 problem, the Postal Service's In-Office Cost System has trouble identifying  
13 Automation from Nonautomation letters, which permits Automation costs to be  
14 recorded as Nonautomation costs. The result is an alleged overstatement of  
15 Nonautomation costs. To solve this problem the Postal Service has decided to  
16 combine Automation and Nonautomation costs and used its mail flow models to  
17 de-average the combined Presorted unit cost into Automation and  
18 Nonautomation.

19 I have followed the procedure suggested by the Postal Service as a  
20 means for solving Automation/Nonautomation data problem. However, as  
21 discussed in the next section, I have used a slightly different methodology to de-  
22 average the CRA-derived Presorted unit cost into Automation and  
23 Nonautomation. Table 3 compares my results to those of the CRA and the  
24 Postal Service. Like the Postal Service, my methodology derives a lower  
25 Nonautomation unit cost estimate compared to the CRA, but not nearly as low as  
26 the Postal Service's method.

27  
28

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<sup>13</sup> I have relied upon the analysis of Pitney Bowes witness Buc in making the specific cost pool classifications. See Library Reference PB-LR-L-1, Tab 5.

1 **Table 3**  
2 **Comparison of TY 2008 Unit Costs for**  
3 **First-Class Automation and Nonautomation Letters**  
4 **(PRC Attributable Costs, Cents)**

| First-Class Presort Category | CRA   | USPS Model | MMA Model |
|------------------------------|-------|------------|-----------|
| Nonautomation                | 24.53 | 7.17       | 13.10     |
| Automation                   | 4.22  | 4.92       | 4.70      |
| Combined                     | 5.00  | 5.00       | 5.00      |

Sources: USPS-LR-147, USPS-LR-L-110, MMA-LR-1, p. 3

5  
6 **E. CRA Proportional Adjustment Factors**

7 In general, the Postal Service's models are simply theoretical simulations  
8 of mail flow and, therefore, cannot exactly replicate the real world complexities of  
9 mail processing. To tie the model-derived unit costs to actual costs, CRA  
10 Proportional Adjustment factors are derived and used to reconcile the model-  
11 derived unit costs to an appropriate CRA-derived unit cost standard. As  
12 described by USPS witness Abdirahman, "[t]he purpose of the Proportional  
13 Adjustment factor is to bring the modeled costs into alignment with the  
14 CRA costs." Tr. 4/589.

15 In the past, CRA-derived unit processing costs have been available for  
16 MML (as a proxy for BMM<sup>14</sup>), Nonautomation letters and Automation letters. The  
17 relationship of the actual CRA-derived unit costs to model-derived unit costs  
18 provides insight regarding how well the models reflect actual costs and,  
19 ultimately, what specific adjustments must be made to the model results to bring  
20 them into alignment with the CRA.

21 After evaluating the model and CRA results for the past three rate cases, it  
22 is clear to me that the mail flow models' costs associated within the Remote Bar  
23 Code System (RBCS) are too low. I discussed this phenomenon more than four  
24 years ago in R2001-1. See KE-ST-1 pages 7 - 17. At the time I analyzed the

---

<sup>14</sup> In this discussion, I assume that the model-derived unit costs for BMM and MML are the same and use the terms interchangeably. USPS witness Abdirahman testified that the models for BMM and MML would be very similar if not identical. Tr. 4/656.

1 Postal Service’s models and concluded (R2001-1, KE-ST-1, p. 9 (footnote  
2 omitted, emphasis in original)):

3 Two distinctly different results occur depending upon whether or not  
4 First-Class letters are processed through the RBCS. When non-  
5 prebarcoded letters are sent through the RBCS, the model  
6 significantly **understates** costs. When letters bypass the RBCS, as  
7 prebarcoded QBRM letters do, the model significantly **overstates**  
8 costs. There can be no doubt that the RBCS costs, as reflected in  
9 the Postal Service’s mail flow models, are problematic.

10  
11 I have updated my analyses from R2001-1 and confirm, once again, that  
12 the Postal Service’s mail flow models understate the actual processing costs of  
13 First Class letters that are not prebarcoded. As shown in Library Reference  
14 MMA-LR-3, there are three comparisons of letter categories where I have  
15 modified the entry characteristics such that the letters either must be processed  
16 within the RBCS or can bypass the RBCS. The results are shown in Table 4. In  
17 each case, the results are unreasonable and contrary to expectation.

18 **Table 4**  
19 **Analysis of Model-Derived Unit Costs With and Without RBCS Processing**  
20 **(Cents)**

| Model                               | TY 2008 Model-Derived Unit Cost | Change In Unit Cost Due to Prebarcoding |
|-------------------------------------|---------------------------------|---|
| 1. BMM No Prebarcodes               | 5.183                           |   |
| BMM With Prebarcodes                | 5.420                           | 0.238                                   |
| 2. NAMMA No Prebarcodes             | 5.193                           |   |
| NAMMA With Prebarcodes              | 5.432                           | 0.239                                   |
| 3. MAADC No Prebarcodes, No Presort | 5.193                           |   |
| MAADC With Prebarcodes              | 5.163                           | (0.031)                                 |

Source: MMA-LR-3, p. 1

21  
22 Since BMM is not prebarcoded, it normally enters the model at the  
23 outgoing RBCS operation “OUT ISS” which attempts to spray on a barcode. If  
24 the BMM letters are assumed to be prebarcoded and are adjusted to enter the  
25 model at the “Out Auto Prim” operation, processing costs should go **down**  
26 because they do not require extra processing in the RBCS operation. Instead,  
27 the Postal Service’s model produces a derived unit cost that goes **up** by 0.238

1 cents. Thus, the mail flow model inexplicably indicates that it costs the Postal  
2 Service less to read an address and spray on a barcode than for the mailer to  
3 provide a prebarcode.

4 A similar, nonsensical result occurs with the Postal Service's model for  
5 Nonautomation Machinable MAADC-AADC (NAMMA) letters. As is the case with  
6 BMM, NAMMA is normally entered in the Postal Service's model at the "Out ISS"  
7 in order to obtain a barcode. However, if the Postal Service's NAMMA model is  
8 modified by assuming that NAMMA is prebarcoded, the entry point would be  
9 changed to the "Out Auto Primary" operation. The costs should go **down**, but  
10 instead, go **up** by 0.239 cents.

11 With respect to prebarcoded Automation MAADC letters, the results are  
12 also unrealistic. When the presort level is reduced so that the letters cannot  
13 bypass the outgoing primary sort **and** the prebarcodes are removed, the unit  
14 costs should certainly go **up significantly**. Not only does the Postal Service lose  
15 the benefits of presorting past the outgoing primary sort, but it also now has to  
16 apply a barcode. However, according to the Postal Service's mail flow model,  
17 the unit costs remain virtually the same, increasing by just .031 cents.

18 This updated analysis provides overwhelming evidence that the current  
19 models still understate RBCS costs, an issue that was pointed out more than four  
20 years ago. See R2001-1, KE-ST-1, p. 17, fn 15.

21 The purpose of applying CRA Proportional Adjustment Factors to the  
22 model-derived unit costs is to "bring the modeled costs into alignment with the  
23 CRA costs." Tr. 4/589. Such an adjustment, if done correctly, tends to correct for  
24 errors such as the models' understatement of RBCS costs. But USPS witness  
25 Abdirahman dismisses this entire issue by deriving one CRA Proportional  
26 Adjustment factor for all Presorted letters combined. By doing so, he is unable to  
27 account for the different predispositions exhibited by the models with respect to  
28 RBCS processing.

29 USPS witness Abdirahman incorrectly applies one CRA Proportional  
30 Adjustment factor for all Presorted letters combined. This "combined" CRA  
31 Proportional Adjustment factor does not allow his model results to be properly

1 adjusted. The CRA Adjustment factor needs to correct for the models'  
2 understatement of RBCS costs for letters requiring such processing and the  
3 models' overstatement of other processing costs for letters that bypass the  
4 RBCS. One CRA Proportional Adjustment factor alone cannot possibly perform  
5 both tasks simultaneously.

6 For example, Nonautomation letters require RBCS processing in the same  
7 manner as BMM. We know from past experience that the BMM model-derived  
8 unit costs have always been low compared to the BMM CRA-derived unit costs.  
9 Accordingly, it is likely that the model-derived unit cost for Nonautomation letters  
10 will also be low compared to actual costs. The opposite is true for Automation  
11 letters – the model-derived unit costs are historically high compared to the actual  
12 CRA costs. Using one CRA Proportional Adjustment factor for all presorted  
13 letters combined fails to correct for this problem.

14 Mr. Abdirahman's use of one CRA Proportional Adjustment factor for all  
15 Presorted letters (Automation and Nonautomation combined) is inappropriate  
16 and produces inaccurate unit cost estimates. His derived CRA Proportional  
17 Adjustment factor is 1.013. See Library Reference USPS-LR-L-48, p. 2. This  
18 means he increases his model-derived unit costs for each category within  
19 Nonautomation and Automation letters by 1.3% in order to reconcile his models  
20 to the CRA. Based on the consistent past behavior of his models, which required  
21 increasing the model-derived unit cost for Nonautomation letters and reducing  
22 the model-derived unit cost for Automation letters, Mr. Abdirahman should have  
23 recognized that applying one CRA Proportional factor would produce final unit  
24 costs that are inaccurate – too low for Nonautomation letters and too high for  
25 Automation letters.

26  
27  
28  
29  
30

1 The simple logic that I have applied is as follows. The Postal Service has  
 2 confirmed that BMM and NAMMA letters exhibit very similar costs attributes. **Tr.**  
 3 **18C/6281**. (Response to MMA/USPS-T22-35 (B)) In fact, the mail flow models  
 4 used to simulate BMM and NAMMA processing are identical.<sup>15</sup> Further, the  
 5 Postal Service agrees that the BMM model understates the CRA-derived unit  
 6 cost standard by 2.915 cents or 36%. **Tr. 18C/6278**. (Response to **MMA/USPS -**  
 7 **T22-32 (A)**) I contend that, if the BMM model understates actual costs by 36%  
 8 and BMM and NAMMA costs are very similar, then it is reasonable to conclude  
 9 that the NAMMA model also understates actual costs by 36 percent.<sup>16</sup>

10 The final proof is in the numbers. Table 5 compares NAMMA and BMM  
 11 unit costs using the Postal Service’s single CRA Proportional Adjustment factor  
 12 with the unit costs I develop using separate CRA Proportional Adjustment factors  
 13 for NAMMA and BMM.<sup>17</sup>

14 **Table 5**  
 15 **Comparison of NAMMA and BMM Model-Derived Unit Costs**  
 16 **(PRC Attributable Costs, Cents)**

| First-Class Letter Category | TY 2008 Model-Derived Unit Cost |      |
|-----------------------------|---------------------------------|------|
|                             | USPS                            | MMA  |
| NAMMA                       | 5.42                            | 8.12 |
| BMM                         | 8.11                            | 8.11 |

Sources: USPS-LR-L-110 MMA-LR-I  
USPS-LR-L-141

17

<sup>15</sup> See **Tr. 18C/6281**. (Response to MMA/USPS-T22-35(A)) The model-derived unit costs of BMM and NAMMA are identical except for the tiny difference in the premium pay factors applied separately for single piece letters and presorted letters. See Library Reference USPS-LR-L-141, p. 3 for BMM and USPS-LR-L-110, p. 14 for NAMMA.

<sup>16</sup> The Postal Service disagrees with this logic. When asked if it was likely that the NAMMA model would understate costs in the same manner as the BMM model, the Postal Service simply points out that “[t]he cost models could overstate, understate cost or accurately state costs, given that they are used as an estimation tool.” **Tr. 18C/6281**. (Response to MMA/USPS-T22-35 (D)) In another answer to the same question the Postal Service points out that “[t]he Nonautomation letters introduce additional issues that do not concern BMM.” **Tr. 18D/6255**. (Response to **MMA/USPS-23(C)**) Neither of these answers is responsive or convincing.

<sup>17</sup> This comparison uses the Postal Service’s methodology but the Commission’s attributable costs to make an “apples-to-apples” comparison.

1 My results show that NAMMA and BMM unit costs are similar, as  
2 expected. In contrast, the Postal Service's results indicate that the unit cost for  
3 BMM (8.12 cents) is **50% higher** than the unit cost for NAMMA (5.42 cents).<sup>18</sup>

4 The Postal Service's unit costs for NAMMA and BMM letters are so  
5 different because the Postal Service ignores the fact that its model fails to  
6 account for 36% or 2.915 cents of costs that BMM incurs, according to the CRA.  
7 Knowing that the BMM model fails to pick up 2.915 cents worth of costs, it is  
8 reasonable to expect that the model for very similar letters, i.e. NAMMA letters,  
9 would also fail to pick up those same costs. Taking this logic one step further, it  
10 seems clear that Nonautomation 3-digit and 5-digit letters would also require the  
11 same steps in order to "bring the modeled costs into alignment with the CRA  
12 costs." Such mail must be processed within the incoming RBCS and a similar  
13 adjustment to the model-derived understatement of RBCS costs is necessary.

14 I have corrected Mr. Abdirahman's flawed use of one CRA Proportional  
15 Adjustment factor that he applies to all his models by using two separate CRA  
16 Proportional Adjustment factors: one for Nonautomation letters and a separate  
17 factor for Automation letters. As Table 5 demonstrates, my results are much  
18 more reasonable and consistent with past information.

19 To de-average Presorted costs into Nonautomation and Automation, I first  
20 derive a CRA Proportional Adjustment factor for MML which, like Nonautomation  
21 letters, requires processing in the RBCS operation. Because the MML CRA-  
22 derived unit cost is 56% higher than the model-derived unit cost, a CRA  
23 Proportional Adjustment factor of 1.56 must be applied to bring the model costs  
24 in line with CRA costs. Since Nonautomation letters are so similar to MML  
25 letters, I increased the Nonautomation model-derived unit costs using the same  
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<sup>18</sup> The Postal Service's confirmation that "NAMMA and BMM exhibit similar physical characteristics and would be expected to have similar cost characteristics." **Tr. 18C/6281.** (Response to MMA/USPS-T32-35 (B)) refutes the notion that the unit cost of BMM is 50% higher than that of NAMMA letters.

1 CRA Proportional Adjustment factor.<sup>19</sup> Then, by using the CRA-derived unit  
2 costs for all Presorted letters, I “backed out” Nonautomation costs from Presort  
3 costs and derived a separate CRA Proportional Adjustment factor of 0.93 for  
4 Automation letters. See Library Reference MMA LR-1, p. 3. This result is  
5 consistent with past experience since the Postal Service’s Automation models  
6 have always overstated CRA costs.<sup>20</sup>

#### 7 **F. Delivery Point Sequence Percentages**

8 Delivery point sequence percentages (DPS %s) for each letter category  
9 are by-products of the Postal Service’s mail flow models. The method used to  
10 derive the DPS %s from the models is precisely the same as that used in the last  
11 three rate cases. In this regard, I note that, as reflected by the theoretical mail  
12 flows within each of the Automation letter models, the probability that a letter will  
13 be processed by automation throughout the mailstream varies with the degree of  
14 presort. Table 6 shows the automation probability by presort category.

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<sup>19</sup> The Postal Service substituted the BMM CRA Proportional Adjustment factor for the Nonautomation CRA Proportional Adjustment factor used for deriving QBRM savings. See Tr. [18D/6634](#). (Response to TW/USPS-6) I too have assumed that the BMM and Nonautomation CRA Proportional Adjustment factors would be very similar. USPS witness Abdirahman’s application of a totally different CRA Proportional Adjustment factor to Nonautomation model results in Library Reference USPS-LR-L-48 is inconsistent with the assumption that the BMM and Nonautomation CRA Proportional Adjustment factors are very similar.

<sup>20</sup> While this is consistent with past experience, the CRA Proportional Adjustment factor is slightly higher than experienced in previous cases. The reason for this phenomenon is not improvements in the model to lower the theoretical costs but rather the fact that the CRA-derived unit cost for Automation letters is significantly higher than in the past. The Postal Service has confirmed that it made no material changes to the models. Input parameters have simply been updated. Tr. [4/588](#). (Response to MMA/USPS-T22-42) First-Class workshared letter “proportional costs” have seen an 11.3% increase from “comparable” test year costs projected just one year earlier. Apparently, the method used to collect and assign IOCS tallies significantly increased workshared letter costs compared to other First-Class categories. Tr. [18C/6239, 6271](#). (Responses to MMA/USPS-16(C), MMA/USPS-T22-28(D)) Thus, the CRA-derived unit costs are much higher than reported in the past, which explains why they are closer to the model-derived unit cost in this case than they were in previous cases.

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**Table 6**  
**Probabilities for Automation Processing Through Delivery**  
**For Automation Letters**

| <b>Automation Rate Category</b> | <b>Automation Probability</b> |
|---------------------------------|-------------------------------|
| MAADC                           | 88.4%                         |
| AADC                            | 91.1%                         |
| 3-Digit                         | 92.4%                         |
| 5-Digit                         | 95.6%                         |

Sources: USPS-LR-L-48  
Tr. 4/592

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As Table 6 demonstrates, the likelihood that Automation mail can be successfully processed with automation increases with the degree to which the mail pieces are presorted. The converse is also true: the lower the degree of presortation, the greater the probability that the letters will require manual processing. While the Postal Service has abandoned its decade-long position that DPS %s vary with presort level, I have continued the practice of using the models to estimate the DPS %s. However, in order to recognize the independent DPS %s provided by USPS witness Kelley, I reconciled the model-derived DPS %s to the new data in much the same manner as the model-derived processing unit costs have been reconciled to actual CRA costs. This is discussed further in Section II.D below.

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**G. Summary of Mail Processing Cost Savings Results**

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19  
The final derived workshared mail processing unit cost savings by presort rate category are provided in Table 7.

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**Table 7**  
**MMA Derived TY 2008 Workshared Cost Savings by Presort Category**  
**(Cents)**

| First-Class Letter Rate Category | Mail Processing Unit Costs |                   |                         |                               |
|----------------------------------|----------------------------|-------------------|-------------------------|-------------------------------|
|                                  | Benchmark                  | Presorted Letters | Total Unit Cost Savings | Incremental Unit Cost Savings |
| Metered Mail                     | 13.13                      |                   |                         |                               |
| Nonautomation                    |                            | 13.10             | 0.03                    | 0.03                          |
| Mixed AADC                       |                            | 7.72              | 5.41                    | 5.39                          |
| AADC                             |                            | 5.94              | 7.19                    | 1.78                          |
| 3-Digit                          |                            | 5.32              | 7.81                    | 0.62                          |
| 5-Digit                          |                            | 3.30              | 9.82                    | 2.02                          |

Source: MMA-LR-1, p. 1

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## II. Derivation Of Delivery Cost Savings

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Delivery operations represent a second major area where worksharing generates significant cost savings. My analyses show that worksharing significantly reduces delivery costs by almost 4 cents per piece on average per delivered piece, and by more than 3 cents per originating piece.

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In order to estimate delivery cost savings due to worksharing, it is necessary to estimate unit delivery costs for each presort level and then compare them to a nonworkshared letter-shaped benchmark. In doing so, I have relied on the Postal Service's delivery cost study that derives unit costs by shape. In order to utilize these results to properly measure workshared cost savings, I have made modifications in the following areas:

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- A. Removal of Collection Costs
- B. De-averaging Single Piece Letter Delivery Costs
- C. Delivery Cost Benchmark
- D. De-averaging Automation Delivery Costs
- E. Derivation of Costs Per Delivered Letter

21

### A. Removal Of Collection Costs

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When the city delivery cost collection systems were revamped after R2001-1, one of the biggest changes concerned collection costs, which increased by about four times. Since collection costs have little to do with

1 delivery costs, it is necessary to remove them. USPS witness Kelley provided  
2 me with the relevant data to remove collection costs. See Tr. 12/3360-62. A  
3 summary of this analysis is shown in Table 8.

4 **Table 8**  
5 **Collection Cost Removal from First-Class Single Piece Delivery Costs**

| <b>First-Class Single Piece Letters</b> | <b>Total Delivery Costs (\$000)</b> | <b>Unit Cost Per Delivered Letter (Cents)</b> |
|---|-------------------------------------|---|
| With Collection Costs                   | 2,675,500                           | 12.64   |
| Without Collection Costs                | 1,782,394                           | 8.42  |
| Collection Costs                        | 893,106                             |   |

Source: MMA-LR-2, p. 3

6

7 **B. De-averaging Single Piece Letter Delivery Costs**

8 My initial objective was to derive unit delivery costs for MML that could be  
9 used as the benchmark from which to measure workshared delivery cost  
10 savings. MML represents “clean” nonworkshared letters which should provide a  
11 good indication of the difference in costs incurred to deliver a letter without  
12 worksharing versus a letter with worksharing. Using MML as the benchmark  
13 would also be consistent with the mail processing cost savings analysis. USPS  
14 witness Kelley provided the delivery costs separately for stamped, metered and  
15 “other” letters. Tr. 12/3352-54. Using that information, I de-averaged the unit  
16 delivery cost of 8.42 cents for all single piece letters (without collection costs)  
17 shown in Table 8 into the three indicia categories. The results are shown in  
18 Table 9.

19

1 **Table 9**  
2 **TY 2008 First-Class Single Piece Delivery Costs De-Averaged**  
3 **(Cents)**

| First-Class Single Piece Category | Unit Cost Per Delivered Letter |
|-----------------------------------|--------------------------------|
| Stamped                           | 8.32                           |
| Metered                           | 8.61                           |
| Other                             | 8.25                           |
| All Single Piece                  | 8.42                           |

Source: MMA-LR-2, p. 4

4  
5 **C. Delivery Cost Benchmark**

6 In this case, I wanted to use MML costs without collection costs as the  
7 appropriate delivery cost benchmark. However, as shown in Table 9 above, the  
8 unit delivery cost per delivered letter for MML (8.61 cents) is higher than for both  
9 stamped letters (8.32 cents) and “other” letters (8.25 cents). These results  
10 surprised me. Accordingly, I elected to use a benchmark with a lower unit  
11 delivery cost (8.42 cents) -- all single piece letters combined -- from which to  
12 derive workshared delivery cost savings. While such a benchmark is  
13 conservative in that the unit cost for all single piece letters is lower than for MML,  
14 it also is conceptually reasonable. Using the cost differences between all single  
15 piece letters and each workshared category has appeal because it measures the  
16 true difference in all delivery cost attributes that differentiate single piece from  
17 presort letters.

18 **D. De-averaging Automation Delivery Costs**

19 For Automation letters, a similar de-averaging process is required since  
20 the Postal Service fails to provide individual unit delivery costs for each  
21 Automation presort level. To accomplish this, DPS %s are used as a cost driver  
22 of in-office costs in much the same way that the Postal Service de-averaged  
23 delivery costs in R2005-1. The DPS %s are derived from the mail flow models  
24 and then reconciled to the DPS %s reported by USPS witness Kelley from the

1 carrier data systems. The results from this analysis, including the resulting unit  
2 delivery costs by presort level, are shown in Table 10.

3 **Table 10**  
4 **TY 2008 Automation Letter Costs De-Averaged**  
5 **(Cents)**

| First-Class Presort Category | Model Derived DPS %s | Reconciled DPS %s | TY 2008 Unit Delivery Cost Per Delivered Letter |
|------------------------------|----------------------|-------------------|---|
| Nonautomation                | 82.58%               | 77.22%            | 5.24  |
| Mixed AADC                   | 80.07%               | 80.76%            | 4.97  |
| AADC                         | 82.54%               | 83.24%            | 4.78  |
| 3-Digit Letters              | 83.65%               | 84.36%            | 4.69  |
| 5-Digit Letters              | 86.60%               | 87.33%            | 4.46  |
| CR Letters                   | 86.60%               | 87.33%            | 4.46  |
| Total Automation             | 84.52%               | 85.24%            | 4.63  |
| Total Presort Letters        | 84.45%               | 84.95%            | 4.65  |

Source: MMA-LR-1, p. 2, MMA-LR-2, p. 1

6

7 **E. Derivation of Delivery Costs Per Delivered Letter**

8 Derivation of unit delivery costs per **delivered** letter is not a new concept  
9 but has never been adequately addressed by the Commission. Therefore, I will  
10 provide a detailed explanation of this issue.

11 The Postal Service calculates unit delivery costs per **originating** letter. If  
12 the percentage of pieces actually delivered by carriers were the same for single  
13 piece letters and workshared letters, using the Postal Service's delivery costs per  
14 originating letter would be fine. The problem is that the percentage of First-Class  
15 single piece letters that are actually delivered by city and rural carriers (61%) is  
16 much lower than the percentage of workshared letters that are actually delivered  
17 by city and rural carriers (90%). Under these circumstances, derivation of  
18 delivery costs per originating piece, by themselves, makes little sense. A simple  
19 example discussed at Tr. 12/3392 illustrates this point.

20 Assume that there are two categories of letters: Category A has a unit  
21 delivery cost per originating letter of 5 cents and Category B has a unit delivery  
22 cost per originating letter of 7 cents. One might suspect that it costs 2 cents

1 more to deliver a Category B letter. However, the unit delivery costs per  
2 originating letter do not provide sufficient information to make that conclusion.

3 Assume further that 60% of Category A letters are actually delivered by  
4 city and rural carriers while 90% of Category B letters are actually delivered.  
5 Using this additional information, the unit cost to actually deliver a Category A  
6 letter becomes 8.3 cents while the unit delivery cost for a Category B letter is 7.8  
7 cents. In other words, a Category B letter costs 0.5 cents less to deliver than a  
8 Category A letter.

9 When comparing unit delivery costs for two letter categories with *different*  
10 proportions that are actually delivered by carriers, it is necessary to derive the  
11 unit cost per *delivered* letter.

12 Comparing the unit cost differences per *delivered* letter between  
13 presorted and single piece letters derives a cost savings. However, such savings  
14 accrue only if a particular letter is actually delivered. If a letter bypasses the  
15 delivery system, *i.e.*, is addressed to a post office box, no delivery cost savings  
16 will accrue. Consequently, it is necessary to adjust the derived cost savings per  
17 *delivered* letter and spread these savings over all *originating* letters, as shown  
18 in Table 11.

19 **Table 11**  
20 **Derivation of TY 2008 Presort Delivery Cost Savings**  
21 **(Cents)**

| First-Class Letter Rate Category | TY 2008 Unit Costs Per Delivered Letter | TY Unit Delivery Savings Per Delivered Letter | % Of TY Letters Delivered by Carriers | TY Unit Delivery Savings Spread Over All Letters |
|----------------------------------|---|---|---------------------------------------|--|
| Single Piece Benchmark           | 8.42                                    |   |                                       |  |
| Nonautomation                    | 5.24                                    | 3.18  | 89.60%                                | 2.85   |
| MAADC                            | 4.97                                    | 3.45  | 89.60%                                | 3.09   |
| AADC                             | 4.78                                    | 3.64  | 89.60%                                | 3.26   |
| 3-Digit                          | 4.69                                    | 3.73  | 89.60%                                | 3.34   |
| 5-Digit                          | 4.46                                    | 3.96  | 89.60%                                | 3.54   |
| Automation                       | 4.63                                    | 3.80  | 89.60%                                | 3.40   |
| Presorted                        | 4.65                                    | 3.77  | 89.60%                                | 3.38   |

Source: MMA-LR-2, p. 1

22

1 **III. Total Workshared Cost Savings**

2 The final step to derive total workshared cost savings is to combine the  
3 mail processing cost savings shown in Table 7 with the delivery cost savings  
4 shown in Table 11. The results are shown in Table 12.

5 **Table 12**  
6 **TY 2008 Total Worksharing Unit Cost Savings**  
7 **(Cents)**

| <b>First-Class Letter Rate Category</b> | <b>Benchmark</b> | <b>Mail Processing + Delivery Unit Cost</b> | <b>Total Workshared Unit Cost Savings</b> |
|---|------------------|---|---|
| Benchmark                               | 20.67            |   |   |
| Nonautomation                           |                  | 17.80                                       | 2.88                                      |
| Mixed AADC                              |                  | 12.17                                       | 8.50                                      |
| AADC                                    |                  | 10.22                                       | 10.45                                     |
| 3-Digit                                 |                  | 9.53  | 11.15                                     |
| 5-Digit                                 |                  | 7.30  | 13.37                                     |

Source: MMA-LR-1, p. 1

8

1 **Appendix II**  
2 **Technical Discussion: High Volume QBRM Cost Issues**

3 There are two rate components that High Volume QBRM recipients pay  
4 based on the number of pieces received: a discounted First-Class basic rate and  
5 a QBRM per piece fee that is paid in addition to the QBRM rate. The cost  
6 aspects of each of these rate elements are discussed below:

7 **I. QBRM Cost Savings**

8 There are two major problems with the manner in which the Postal Service  
9 has derived QBRM cost savings. First, its proposal to limit the mail flow model  
10 arbitrarily ignores substantial cost savings that accrue downstream after the first  
11 outgoing barcode sortation. Second, the Postal Service assumes, incorrectly,  
12 that the QBRM model-derived unit cost must be adjusted to reflect the model's  
13 failure to pick up 36 percent of actual cost for letters requiring processing within  
14 the Remote Bar Code System (RBCS). QBRM completely bypasses the RBCS.

15 **A. Model Design**

16 In order to derive cost savings arising from the special attributes of QBRM,  
17 the mail processing costs incurred by prebarcoded QBRM are compared with the  
18 costs incurred by hand-addressed (HAND) letters. The costs for these two types  
19 of mail are developed from separate mail flow models for each.

20 In this proceeding, the Postal Service proposes to limit derived QBRM  
21 cost savings by producing a "narrowly defined cost analysis" that eliminates from  
22 consideration any costs that QBRM saves after the first barcoded sortation. See  
23 USPS-T-22, p. 16. The Postal Service's proposal to limit QBRM cost savings  
24 represents an unjustified departure from the cost savings methodology employed  
25 by the Postal Service and relied upon by the Commission in R2000-1.<sup>1</sup>

26 The automation compatible features of QBRM make for a much higher  
27 probability that QBRM letters will be processed by automation until delivery. The

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<sup>1</sup> The Postal Service made the same proposal in R2001-1 and R2005-1 but the Commission made no merits determination on this proposal because both proceedings were settled.

1 same cannot be said for HAND letters which are much more apt to be processed  
2 manually before reaching delivery.

3 QBRM and HAND letters cannot be processed identically after the first  
4 barcode sort. More specifically, since, according to the Postal Service's mail flow  
5 models, more than twice as many HAND letters are rejected in the first barcode  
6 sortation, a larger portion of HAND letters require expensive manual processing  
7 thereafter. Therefore, the Postal Service's methodology denies QBRM credit for  
8 substantial cost savings that accrue after that initial sort where the Postal  
9 Service's model stops measuring cost savings.

10 Table 1 shows the percentages of QBRM and HAND letters that are  
11 rejected during the first barcoded sort, as shown in the Postal Service's mail flow  
12 models and confirmed by USPS witness Abdirahman.<sup>2</sup>

13 **Table 1**  
14 **Comparison of Manual/Automated Pieces that Remain**  
15 **After the First Barcoded Sort**  
16 **Between HAND and QBRM Letters**

| Type of First-Class Letter | % Rejected During the First Barcoded Sort |
|----------------------------|---|
| HAND                       | 9.72%                                     |
| QBRM                       | 4.24%                                     |

Source: USPS-LR-L-69, "BRM"

17 Manual processing costs are approximately 13 times the cost of  
18 automated processing. See USPS-T-42, p. 12. Because almost 10% of HAND  
19 letters require very expensive manual processing after the first barcode sort while  
20 only 4.24% of QBRM letters require manual processing, the Postal Service's  
21 proposal to stop counting cost savings from this point on ignores substantial  
22 savings enjoyed by QBRM compared to HAND letters.  
23

24 Before application of the CRA Proportional Adjustment factors -- to tie the  
25 model-derived unit costs to actual costs -- the Postal Service's derived cost  
26 savings between QBRM and HAND letters is only 1.03 cents. (See Library

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<sup>2</sup> Library Reference USPS-LR-L-69; Tr. 4/561.

1 References USPS-LR-L-69 and USPS-LR-L-104. By contrast, the comparable  
2 figure, which takes into account savings that accrue after the first barcoded sort,  
3 is 2.65 cents. See **Tr. 18D/6634**. (Response to TW/USPS-6 (B)) Accordingly, the  
4 Postal Service's "narrow" view for measuring the model-derived unit cost savings  
5 is low by 1.62 cents or 61%.

## 6 **B. CRA Proportional Adjustment Factors**

7 Once the model-derived unit costs are correctly computed for HAND and  
8 QBRM letters, appropriate CRA Proportional Adjustment factors are applied to  
9 the unit costs to reconcile the model-derived unit costs to actual CRA costs.  
10 However, a problem arises because there are no CRA unit costs for either  
11 QBRM or HAND letters.

12 The Postal Service applies the CRA Proportional Adjustment factor  
13 derived for BMM letters to the unit costs of **both** QBRM and HAND.<sup>3</sup> Multiplying  
14 the QBRM and HAND model-derived unit costs by the 1.564 CRA Proportional  
15 Adjustment factor raises each by the same 56.4 percentage.

16 While the logic of applying a CRA Proportional Adjustment factor to the  
17 model-derived unit costs is sound, the Postal Service erred by applying the same  
18 factor to the unit costs of both QBRM and HAND letters. First, as a reference  
19 point, I agree with the Postal Service's choice of the BMM Proportional  
20 Adjustment factor for HAND letters. The CRA cost target for BMM letters is  
21 56.4% higher than unit cost produced by the BMM model. That means that the  
22 mail flow model fails to reflect a substantial amount of actual costs incurred to  
23 process this mail. Since HAND letters and BMM letters are similar (in that both  
24 require processing through the RBCS) it is reasonable to assume that the model-  
25 derived unit cost for HAND letters is similarly understated. Raising the modeled-  
26 derived unit cost for HAND letters by applying the BMM CRA Proportional

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<sup>3</sup> It appears that the Postal Service uses the BMM CRA Proportional Adjustment factor as a proxy for the Nonautomation CRA Proportional Adjustment factor. See **Tr. 18D/6634**. (Response to **TW/USPS-6(B)**). This is consistent with my cost analysis but inconsistent with USPS witness Abdirahman's method for de-averaging Presorted costs into Automation costs and Nonautomation costs. See Library Reference USPS-LR-L-48, p. 2.

1 Adjustment factor brings the model-derived unit cost “into alignment” with the  
2 CRA. Tr. 4/589.

3 I do **not** agree with the Postal Service’s use of the BMM CRA Proportional  
4 Adjustment factor to “true up” the model-derived unit cost for QBRM letters.  
5 QBRM letters completely bypass the RBCS because the FIM mark is used to cull  
6 QBRM letters from other single piece letters before they are sent to the RBCS,  
7 and all QBRM letters have a pre-approved, high quality barcode printed on the  
8 letter. QBRM letters are routed directly to an automated outgoing primary  
9 barcode sortation.

10 As discussed in greater detail in Appendix I and as demonstrated in  
11 Library Reference MMA-LR-3, the Postal Service’s mail flow models historically  
12 understate costs for letters requiring RBCS processing and overstate costs for  
13 letters that bypass the RBCS. Since QBRM bypasses the RBCS, it is counter  
14 intuitive to apply a CRA Proportional Adjustment factor that increases the model-  
15 derived unit cost by 56.4% for QBRM as the Postal Service does. QBRM  
16 exhibits cost attributes that are distinctly different than either BMM or HAND.<sup>4</sup>  
17 Accordingly, there is no reason to believe that the QBRM model has understated  
18 processing unit costs in the same manner as the BMM or HAND models have.

19 QBRM letters share the same cost causing attributes as Automation  
20 letters. Both types of letters are prebarcoded and meet stringent automation  
21 compatibility requirements. Therefore, QBRM letters and Automation letters both  
22 bypass the RBCS operation. Tr. 4/563. Accordingly, I have applied the CRA  
23 Proportional Adjustment factor of 0.931 derived for Automation letters to the  
24

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<sup>4</sup> USPS witness Abdirahman suggests that it is appropriate to use the BMM CRA Proportional Adjustment factor for both HAND and QBRM “because all three mail types are components of the First-Class Single-Piece mail stream.” Tr. 4/563-4. While this statement is factual, I question its relevance. Because the Postal Service requires QBRM letters to be pre-approved and to bear a FIM and a prebarcode, which makes them automation-compatible, QBRM letters are far closer to Automation letters than to single piece letters. Tr. 4/563. The purpose of applying the BMM CRA Proportional Adjustment factor to the model-derived cost of HAND letters is to correct for the fact that the model understates RBCS costs. It makes no sense to apply the same CRA Proportional Adjustment factor to the model-derived unit cost for QBRM because QBRM completely **bypasses** the RBCS.

1 QBRM unit cost of 4.122 cents. This brings the QBRM model-derived unit cost  
2 “into alignment” with the CRA for QBRM.

3 Table 2 shows how I derived QBRM cost savings.

4 **Table 2**  
5 **MMA Derivation of QBRM Unit Cost Savings**  
6 **(Cents)**

|                            | (1)                     | (2)                         | (3)                  |
|----------------------------|-------------------------|-----------------------------|----------------------|
| Type of First-Class Letter | Model-Derived Unit Cost | CRA Proportional Adj Factor | Reconciled Unit Cost |
|                            |                         |                             | (1) x (2)            |
| HAND                       | 6.768                   | 1.564                       | 10.589               |
| QBRM                       | 4.122                   | 0.931                       | 3.838                |
| Difference                 |                         |                             | 6.751                |

Sources: Response to TW/USPS-6B, MMA-LR-1, pages 3 and 5

7  
8 The 6.75 cents QBRM cost savings I derive is more than 5 cents higher  
9 than the cost savings shown by the Postal Service (1.49 cents).

10 As a test of reasonableness, I compared the HAND and QBRM results  
11 shown in Table 2 to costs for similar letters for which adjusted model-derived,  
12 reconciled unit costs are also available. To accomplish this I initially modified the  
13 QBRM model to reflect the exact same densities, miscellaneous factors and  
14 accept rates exhibited for other First-Class categories. This enables me to make  
15 an “apples to apples” comparison by removing any exogenous factors.

16 My expectation was that HAND letters should cost slightly more than  
17 metered mail letters (MML) and QBRM letters should cost slightly more than  
18 Automation Mixed AADC (MAADC) letters. The reasons for my expectations are  
19 as follows. HAND and MML are very similar, except that HAND has a higher  
20 reject rate than MML because HAND letters contain hand-addressed envelopes  
21 whereas a substantial portion of MML letters have typewritten addresses that are  
22 more machine readable. QBRM and MAADC letters are very similar, except that  
23 QBRM is assumed to be entered in the model’s “Out Auto Primary” operation  
24 whereas MAADC is entered in the “Out Auto Sec” operation.

1 The results of my test analysis are shown in Table 3. As expected, the  
2 unit cost for HAND letters is higher than the unit cost for MML, reflecting the  
3 additional costs required to process more letters manually. As also expected,  
4 QBRM letters cost slightly more than MAADC, reflecting the fact that QBRM  
5 enters the processing stream earlier and requires additional processing.

6 **Table 3**  
7 **Comparison of TY 2008 Model-Derived and Reconciled Unit Costs**  
8 **(Cents)**

|                            | (1)                     | (2)                         | (3)                  |
|----------------------------|-------------------------|-----------------------------|----------------------|
| Type of First-Class Letter | Model-Derived Unit Cost | CRA Proportional Adj Factor | Reconciled Unit Cost |
|                            |                         |                             | (1) x (2)            |
| MAADC                      | 5.163                   | 0.931                       | 4.807                |
| QBRM                       | 5.432                   | 0.931                       | 5.058                |
| MML                        | 5.183                   | 1.564                       | 8.108                |
| HAND                       | 6.574                   | 1.564                       | 10.285               |

Sources: MMA-WP-2, MMA-LR-1, pages 3, 5 and 8

9  
10 As one final test, I applied the BMM Proportional Adjustment Factor to the  
11 QBRM model-derived unit cost, just as the Postal Service has done. The  
12 resulting reconciled cost would have been 5.432 x 1.564 or 8.499 cents. This  
13 would cause QBRM to cost more than MML to process, a highly unlikely  
14 situation. Accordingly, the Postal Service's erroneous application of the BMM  
15 Proportional Adjustment Factor to the QBRM model-derived unit cost should be  
16 rejected.

17 **II. High Volume QBRM Per Piece Costs**

18 The per piece costs for High Volume QBRM reflect the counting of such  
19 pieces so that the postage can be determined and collected. As discussed in my  
20 direct testimony, the BRM Practices Study contained in Library Reference LR-  
21 USPS-L-34 suffers from the same infirmities as the 1997 BRM Practices Study.  
22 In brief, it produces results that are demonstrably unreasonable as they relate to  
23 manual counting for High Volume QBRM. The flawed finding in the 1997 BRM

1 Practices Study that 47% of High Volume QBRM was manually counted has  
2 been repudiated twice, first by USPS witness Campbell in R2000-1 and again by  
3 USPS witness Miller in R2001-1. Mr. Campbell conducted a survey of the top 77  
4 High Volume QBRM recipients and determined that only 11% of high volume  
5 QBRM was counted manually. Mr. Miller did a more comprehensive survey of  
6 the top 151 QBRM High Volume recipients, which showed that less than 0.4% of  
7 this QBRM was hand counted.<sup>5</sup> Moreover, as the Commission agreed, it is  
8 simply “strains credulity” to think that the Postal Service could possibly hand  
9 count so many pieces received in high volumes. (R2000-1 PRC Opinion at 552)

10 To compute the unit cost for the High Volume QBRM per piece fee, I  
11 employ two methodologies. First, I use the results found by USPS witness  
12 Loetscher’s BRM Practices Study in this case, except that I have assumed the  
13 productivity for counting machines or weight averaging techniques instead of the  
14 very low and inefficient productivity for manual counting. Second, I assume the  
15 counting methods by percentage found by USPS witness Miller’s comprehensive  
16 survey of 151 High Volume QBRM recipients conducted for R2001-1 and utilized  
17 by USPS witness Hatcher in R2005-1.

18 In both derivations, I have also assumed a zero cost for counting QBRM  
19 that is processed by BRMAS software. This is consistent with the Postal  
20 Commission’s treatment in R2000-1.

21 Tables 4 and 5 provide the derivation of the unit cost to count High  
22 Volume QBRM using both assumptions. As these tables show, the per piece fee  
23 cost ranges from 0.012 cents to 0.070 cents. Of the two unit costs, I think that  
24 0.012 cents is more reliable. It incorporates the counting method percentages  
25 based on the comprehensive survey of actual counting methods, rather than  
26  
27

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<sup>5</sup> USPS witness Loetscher who sponsors the new BRM Practices Study in this case confirmed that he did not know anything about the High Volume QBRM counting methods survey conducted by USPS witness Campbell in R2000-1 or the Commission’s Recommended Decision in that case. Tr. 7/1575-76. Mr. Loetscher also testified that he only reviewed the more comprehensive survey conducted by USPS witness Miller in R2001-1 (Tr. 7/1580-1582) a “couple days” before taking the witness stand in this case. Tr. 7/1576-77.

1 relying upon a statistical probability sampling of offices that must be expanded to  
2 represent the entire universe of High Volume QBRM counting.

3 **Table 4**  
4 **Derivation of High Volume QBRM Unit Counting Costs**  
5 **Using R2006-1 Counting Method Percentages**  
6 **(Cents)**

| Counting Method      | Volume % | PPH    | Wage Rate | Direct Cents Per Piece | Piggy back Factor | Prem Pay Factor | Prem Pay Adjustment | Total Cents Per Piece | Weighted Cents Per Piece |
|----------------------|----------|--------|-----------|------------------------|-------------------|-----------------|---------------------|-----------------------|--------------------------|
| R2006-1 Percentages: |          |        |           |                        |                   |                 |                     |                       |                          |
| Other Software       | 0.00%    | ---    | ---       | ---                    | ---               | ---             | ---                 | ---                   | ---                      |
| BRMAS 1/             | 3.40%    | ---    | ---       | ---                    | ---               | ---             | ---                 | ---                   | ---                      |
| End-of-Run (EOR)     | 45.40%   | ---    | ---       | ---                    | ---               | ---             | ---                 | ---                   | ---                      |
| Counting Machine     | 10.00%   | 37,145 | 37.992    | 0.102                  | 1.333             | 1.012           | 0.001               | 0.138                 | 0.014                    |
| Manual 2/            | 26.60%   | 37,145 | 37.992    | 0.102                  | 1.333             | 1.012           | 0.001               | 0.138                 | 0.037                    |
| Weight Averaging     | 14.60%   | 37,145 | 37.992    | 0.102                  | 1.333             | 1.012           | 0.001               | 0.138                 | 0.020                    |
| Total                | 100.00%  |        |           |                        |                   |                 |                     |                       | 0.070                    |

Source: USPS-LR-L-104

1/ Assumes No Counting Cost per R2000-1 PRC Opinion

2/ Assumes Productivity for Counting Machine or Weight Averaging

7

8 **Table 5**  
9 **Derivation of High Volume QBRM Unit Counting Costs**  
10 **Using R2005-1 Counting Method Percentages**  
11 **(Cents)**

| Counting Method      | Volume % | PPH    | Wage Rate | Direct Cents Per Piece | Piggy back Factor | Prem Pay Factor | Prem Pay Adjustment | Total Cents Per Piece | Weighted Cents Per Piece |
|----------------------|----------|--------|-----------|------------------------|-------------------|-----------------|---------------------|-----------------------|--------------------------|
| R2005-1 Percentages: |          |        |           |                        |                   |                 |                     |                       |                          |
| Other Software       | 16.46%   | ---    | ---       | ---                    | ---               | ---             | ---                 | ---                   | ---                      |
| BRMAS 1/             | 49.35%   | ---    | ---       | ---                    | ---               | ---             | ---                 | ---                   | ---                      |
| End-of-Run (EOR)     | 30.17%   | ---    | ---       | ---                    | ---               | ---             | ---                 | ---                   | ---                      |
| Counting Machine     | 1.19%    | 37,145 | 37.992    | 0.102                  | 1.333             | 1.012           | 0.001               | 0.138                 | 0.002                    |
| Manual               | 0.38%    | 2,932  | 37.992    | 1.296                  | 1.333             | 1.012           | 0.015               | 1.743                 | 0.007                    |
| Weight Averaging     | 2.45%    | 37,145 | 37.992    | 0.102                  | 1.333             | 1.012           | 0.001               | 0.138                 | 0.003                    |
| Total                | 100.00%  |        |           |                        |                   |                 |                     |                       | 0.012                    |

Sources: Tr. 7/1582, R2005-1 USPS-LR-K-104

1/ Assumes No Counting Cost per R2000-1 PRC Opinion

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