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USPS-T-26

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

POSTAL RATE AND FEE CHANGES, 1997

Docket No. R97-1

DIRECT TESTIMONY
OF
PAUL G. SECKAR
ON BEHALF OF
UNITED STATES POSTAL SERVICE

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DIRECT TESTIMONY OF PAUL G. SECKAR
AUTOBIOGRAPHICAL SKETCH

My name is Paul G. Seckar. I am a Principal Consultant with Price Waterhouse's Office of Government Services in Rosslyn. My business address is 1616 North Fort Myer Drive, Arlington, VA 22209-3195. I have held this position with Price Waterhouse since July of 1995. Prior to that, I was a Senior Consultant within the Office of Government Services, dating back to the initiation of my employment with Price Waterhouse in July of 1993.

My work at Price Waterhouse has been devoted to serving the United States Postal Service, and I am a member of Price Waterhouse's Center for Postal Consulting. My areas of study have been cost estimation, statistical and other special studies, and other pertinent financial and economical studies. I presented testimony in Docket No. MC96-2 in the area of Periodicals mail processing costs.

Prior to joining Price Waterhouse, LLP, I was employed by the Naval Center for Cost Analysis in Arlington, VA. My primary responsibility was developing cost estimates of Naval Weapon Systems.

I hold a Master's of Science Degree in Statistical Science from George Mason University. I completed my Bachelor's of Science Degree at the Pennsylvania State University, majoring in mathematics, with a minor in statistics.

1 **I. PURPOSE OF TESTIMONY**

2

3 The purpose of this testimony is to develop volume variable mail processing
4 costs for each rate category of flats within First-Class Mail, Periodicals Mail, and
5 Standard Mail (A). In the case of Periodicals and Standard Mail (A), both Regular
6 and Nonprofit subclasses are studied. The results of this testimony support the work
7 of witnesses Fronk, Taufique, Kaneer, and Moeller, all of whom are responsible for
8 developing rates.

9 The Postal Service rewards mailers who perform the presorting and
10 barcoding worksharing activities through the use of discounts. The volume
11 variable mail processing costs developed in this testimony will be used, along
12 with the results of other testimony, as inputs for determining the flats mail rates
13 and worksharing discounts.

1 **II. SCOPE OF TESTIMONY**

2

3 This testimony develops volume variable mail processing costs for the
4 following rate categories of flats mail.

5 First-Class:

- 6 - automation basic presort - nonautomation presort
7 - automation 3/5-digit presort

8 Periodicals, Regular and Nonprofit Subclasses:

- 9 - automation basic presort - nonautomation 3-digit presort
10 - automation 5-digit presort - nonautomation 5-digit presort
11 - automation 3-digit presort - carrier route presort
12 - nonautomation basic presort

13 Standard Mail (A), Regular and Nonprofit Subclasses:

- 14 - automation basic presort - nonautomation basic presort
15 - automation 3/5-digit presort - nonautomation 3/5-digit presort

16 Note, each of these rate categories is defined by a combination of the presorting and
17 barcoding worksharing activities.¹ Further, mail processing costs of flats mail for
18 subclasses not listed above are outside the scope of this testimony.

19 The remainder of this testimony is devoted to: a summary of results, a
20 discussion of the cost development methodology, a discussion of refinements to the
21 most recent analyses of flats mail processing costs, and a set of exhibits containing

¹ Barcoded mail is also referred to as automation mail, while nonbarcoded mail is referred to as nonautomation mail. The terms barcoded and automation, as well as nonbarcoded and nonautomation, are used interchangeably throughout this testimony.

1 model summary pages.²

² The most recent flats analyses were present in Docket No. MC96-2, USPS-T-6.

III. SUMMARY OF RESULTS

In the case of Periodicals and Standard Mail (A), two sets of results are provided to pricing witnesses. The first set contains costs such that differences between categories reflect differences in worksharing, as well as inherent mail characteristic differences. These costs are referred to as actual mail makeup costs, and are developed using the actual makeup of flats. The second set contains costs that lead to differences between categories that primarily reflect the cost impact of mailer-applied barcodes. These costs are referred to as constant mail makeup costs, and differ from the actual mail makeup costs only for automation categories as a result of using the nonautomation entry composition for the automation models. These two approaches are discussed in detail in Section IV(A).

Tables III-1 through III-5 summarize the results of this testimony as provided to the pricing witnesses. Exhibits USPS-T-26A through USPS-T-26I explain how the results presented in the tables below were derived. The derivation of First-Class results contained in Table III-1 is available in Exhibit USPS-T-26A. The derivation of Periodicals Regular results contained in Table III-2 is available in Exhibits USPS-T-26B and USPS-T-26F. The derivation of Periodicals Nonprofit results contained in Table III-3 is available in Exhibits USPS-T-26C and USPS-T-26G. The derivation of Standard Mail (A) Regular results contained in Table III-4 is available in Exhibits USPS-T-26D and USPS-T-26H. The derivation of Standard Mail (A) Nonprofit results contained in Table III-5 is available in Exhibits USPS-T-26E and USPS-T-26I. The source of numbers that permit derivation of the final results are provided in LR-H-134.

TABLE III-1
FIRST-CLASS FLATS
UNIT VOLUME VARIABLE MAIL PROCESSING COSTS

| Rate Category | Cents |
|------------------------------|---------|
| automation basic presort | 26.3818 |
| automation 3/5-digit presort | 12.9917 |
| nonautomation presort | 25.3783 |

TABLE III-2
PERIODICALS REGULAR FLATS
UNIT VOLUME VARIABLE MAIL PROCESSING COSTS

| Approach | Rate Category | Cents |
|-----------------------------|-------------------------------|---------|
| Actual Mail Makeup | automation basic presort | 20.6688 |
| | automation 3-digit presort | 15.1620 |
| | automation 5-digit presort | 9.2883 |
| | nonautomation basic presort | 20.5209 |
| | nonautomation 3-digit presort | 14.4160 |
| | nonautomation 5-digit presort | 10.3994 |
| | carrier route presort | 4.9472 |
| Constant Mail Makeup | automation basic presort | 16.2040 |
| | automation 3-digit presort | 12.7670 |
| | automation 5-digit presort | 8.8670 |
| | nonautomation basic presort | 20.5209 |
| | nonautomation 3-digit presort | 14.4160 |
| | nonautomation 5-digit presort | 10.3994 |
| | carrier route presort | 4.9472 |

TABLE III-3
PERIODICALS NONPROFIT FLATS
UNIT VOLUME VARIABLE MAIL PROCESSING COSTS

| Approach | Rate Category | Cents |
|-----------------------------|-------------------------------|---------|
| Actual Mail Makeup | automation basic presort | 13.1577 |
| | automation 3-digit presort | 9.5633 |
| | automation 5-digit presort | 5.7728 |
| | nonautomation basic presort | 13.7075 |
| | nonautomation 3-digit presort | 7.7976 |
| | nonautomation 5-digit presort | 6.4084 |
| | carrier route presort | 2.8033 |
| Constant Mail Makeup | automation basic presort | 10.0825 |
| | automation 3-digit presort | 6.8101 |
| | automation 5-digit presort | 5.1965 |
| | nonautomation basic presort | 13.7075 |
| | nonautomation 3-digit presort | 7.7976 |
| | nonautomation 5-digit presort | 6.4084 |
| | carrier route presort | 2.8033 |

TABLE III-4
STANDARD MAIL (A) REGULAR FLATS
UNIT VOLUME VARIABLE MAIL PROCESSING COSTS

| Approach | Rate Category | Cents |
|-----------------------------|---------------------------------|---------|
| Actual Mail Makeup | automation basic presort | 16.3387 |
| | automation 3/5-digit presort | 9.2361 |
| | nonautomation basic presort | 19.1565 |
| | nonautomation 3/5-digit presort | 11.4181 |
| Constant Mail Makeup | automation basic presort | 14.2202 |
| | automation 3/5-digit presort | 8.6665 |
| | nonautomation basic presort | 19.1565 |
| | nonautomation 3/5-digit presort | 11.2172 |

TABLE III-5
STANDARD MAIL (A) NONPROFIT FLATS
UNIT VOLUME VARIABLE MAIL PROCESSING COSTS

| Approach | Rate Category | Cents |
|-----------------------------|---------------------------------|---------|
| Actual Mail Makeup | automation basic presort | 15.5337 |
| | automation 3/5-digit presort | 9.4846 |
| | nonautomation basic presort | 18.6549 |
| | nonautomation 3/5-digit presort | 9.0584 |
| Constant Mail Makeup | automation basic presort | 13.9147 |
| | automation 3/5-digit presort | 7.3914 |
| | nonautomation basic presort | 18.6549 |
| | nonautomation 3/5-digit presort | 9.0584 |

1 **IV. COST DEVELOPMENT**

2

3 **A. OVERVIEW OF METHODOLOGY**

4

5 This section presents an overview of the methodology, beginning with a
6 general discussion in Section IV(A)(1). Section IV(A)(2) discusses the application of
7 the methodology to the development of costs based upon the actual mail makeup of
8 flats. Section IV(A)(3) discusses the application of the methodology to the
9 development of Periodicals and Standard Mail (A) costs based upon a constant mail
10 makeup. This latter application is used to illustrate the effect that mailer-applied
11 barcodes has on mail processing costs.

12

13 1) **GENERAL DISCUSSION**

14

15 The general methodology employed in this testimony is based upon that used
16 in witness Brattli's testimony, USPS-T-6 in Docket No. MC96-2. Rate category unit
17 volume variable mail processing costs are developed through the use of two models
18 and CRA subclass costs. The models correspond to the major components of mail
19 processing costs, which are piece distribution costs and bundle sorting costs. These
20 costs are used to de-average the CRA subclass costs. All other volume variable mail
21 processing costs are obtained from the de-averaged benchmark costs. In Docket
22 Nos. MC96-2 and MC95-1, the other costs beyond mail processing and bundle
23 sorting were obtained through the use of a "non-model cost factor." This testimony
24 makes use of a similar, although refined, adjustment.

1 Piece distribution costs for each of the rate categories of flats listed in Section
2 II are developed through the use of mail flow models that estimate the number of
3 piece handlings a flat receives at each operation, as well as the cost. The operations
4 are as follows.

- 5 - outgoing primary,
- 6 - outgoing secondary,
- 7 - SCF,
- 8 - incoming primary, and
- 9 - incoming secondary

10 Bundle sorting unit costs for each of the rate categories of flats listed in Section II are
11 developed through the use of a model which estimates the number of handlings or
12 opening units that flats bundles receive or pass through, according to the presort
13 makeup of the bundles.

14 All other volume variable mail processing costs are obtained through the
15 manipulation of benchmark costs and a combination of piece distribution and bundle
16 sorting costs.³ Benchmark costs are shape and subclass specific, and contain all
17 CRA test year volume variable mail processing costs. These costs are inputs to this
18 testimony and are detailed in LR-H-106.

19 The rate category-specific piece distribution and bundle sorting costs are
20 weighted together to form a weighted modeled cost of the flats subclass. Thus, the
21 weighted modeled cost represents a subset of the costs contained in its
22 corresponding benchmark. The weighted modeled cost is applied to the worksharing
23 related portion of the benchmark costs to develop an adjustment factor. The rate

³ The combination of the piece distribution and bundle sorting costs is referred to as the modeled cost.

1 category modeled costs are then each multiplied by the adjustment factor, and the
2 non-worksharing related portion of the benchmark cost is added to each product.
3 The result is a set of rate category costs that reflect the test year CRA level.

4 In summary, piece distribution and bundle sorting costs are developed using
5 wage rates, productivities, and other inputs in a manner essentially independent of
6 mail volume. The combination of piece distribution and bundle sorting costs are used
7 to de-average the mail processing CRA-level benchmarks to produce CRA-level rate
8 category costs.

9
10 2) ACTUAL MAIL MAKEUP

11
12 The costs that result from this testimony are used by pricing witnesses to
13 construct rates and differences between rate categories, which are then used to
14 generate rate discounts. This section discusses the application of the cost
15 development methodology to the construction of costs that reflect the actual mail
16 makeup of flats.⁴ This application is identical to that employed by witness Brattli in
17 Docket Nos. MC96-2 and MC95-1. The models and cost summary sheets that are
18 used to generate these costs are contained in LR-H-134, Sections 1 through 7.

19 The defining elements of this application are the use of the mail entry
20 composition in the piece distribution models and the composition of mail across
21 container presort levels in the bundle sorting model. The mail entry composition
22 reflects the mix of mail across all presort levels as it enters piece distribution. In
23 effect, the mail entry composition indicates the amount of mail that begins piece

⁴ This application is performed for all flats mail classes.

1 distribution at each sort level. The bundle sorting composition across container
2 presort levels reflects the amount of mail within each container presort type, and is
3 used to weight together presort-specific container costs.

4 Automated and nonautomated flats have different mail makeup. In developing
5 "actual mail makeup" costs, each unique mail composition is used to construct actual
6 mail entry costs for the associated type of mail. For example, the Periodicals
7 automation mail entry and container compositions are used in the automation piece
8 distribution models, and the nonautomation mail entry and container compositions
9 are used in the nonautomation piece distribution models.

10

11 3) CONSTANT MAIL MAKEUP

12

13 The ratemaking process examines the differences between the automation
14 and the nonautomation costs to provide insight into what the automation discounts
15 should be for the different presort levels. However, the cost differences based on the
16 actual mail makeup reflect not only the difference in the automation worksharing
17 activity between the two types of mail, but also two more general characteristics that
18 are associated with the different types of mail that comprise each rate category.
19 These are the differences in the eligibility requirements between automation and
20 nonautomation rates and the differences in density makeup between automation and
21 nonautomation mail.

22 A constant mail entry approach that isolates the effect of mailer-applied
23 barcodes mitigates these latter two differences.⁵ The defining elements of this

⁵ This approach is employed only for the Periodicals and Standard Mail (A) classes.

1 approach are the uses of the mail composition input data. Specifically, this approach
2 uses Periodicals nonautomation mail entry composition data for both nonautomation
3 and automation Periodicals rate category models, and the Standard Mail (A)
4 machinable mail entry composition data for both the machinable and automation
5 Standard Mail (A) rate category models.

6 For example, LR-H-134, Section 2, page 10, shows that 8.99 percent of basic
7 rate nonbarcoded mail enters at the mixed ADC level, while 82.43 percent of
8 barcoded basic rate mail enters at the mixed ADC level. Each of these percentages
9 is developed from mail characteristics data for nonbarcoded and barcoded mail,
10 respectively. As shown in LR-H-134, Section 8, page 10, the constant mail makeup
11 approach has the same amount of mail entering at the mixed ADC level in barcoded
12 and nonbarcoded scenarios, the 8.99 percent that is developed from the
13 nonbarcoded mail characteristic data. Through the use of the nonbarcoded
14 percentage in both nonbarcoded and barcoded models, the effect of the mailer-
15 applied barcode is reflected in the cost difference without being confounded by
16 inherent mail characteristics.

17 Further, the Periodicals nonautomation bundle sorting costs are adopted for
18 the automation categories, and the Standard Mail (A) machinable bundle sorting
19 costs are adopted for the automation rate categories. Use of these costs for the
20 automation rate categories serves to standardize the composition of mail across
21 container presort levels in the bundle sorting model.

22 The mail processing costs beyond piece distribution and bundle sorting are
23 generated using the CRA adjustment factors that result from the actual mail entry
24 approach. Use of the same factors as in the actual mail makeup approach adjusts
25 the constant mail entry costs to the appropriate test year CRA level for each rate

1 category, allowing the differences between the categories to focus primarily on the
2 effect of the mailer-applied barcode.

3
4 **B. DEVELOPMENT OF PIECE DISTRIBUTION COSTS**

5
6 This section of testimony discusses the general construct and methodology
7 used to develop piece distribution costs. Piece distribution costs are those incurred
8 in the mail processing operation by sorting mail pieces into piece distribution
9 separations, such as in manual casing of flats or FSM-881 sorts.

10
11 **1) MODEL CONSTRUCT**

12
13 Piece distribution costs are developed for each of the non-carrier route rate
14 categories listed in Section II. The nonautomation rate categories are disaggregated
15 into machinable and nonmachinable categories for modeling purposes.

16 Presort categories correspond to the presort level to which mail is sorted by
17 mailers before deposit into the mail stream. Acceptable levels of presort for flats mail
18 are basic, 3-digit, and 5-digit; or 3/5-digit.⁶ Separate 3-digit and 5-digit presort levels
19 are being proposed for Periodicals Regular and Nonprofit mail as part of this docket.
20 The combined 3/5-digit presort level remains for First-Class Mail and Standard Mail
21 (A) flats. A summary of allowable presort compositions is provided in Exhibit USPS-
22 T-26J

⁶ These are the broad categories of presort. Presort levels specific to mail classes are detailed in Tables IV-1 through IV-3.

1 The First-Class 3/5-digit rate models account for the flow of First-Class 3/5-
2 digit rate flats through only two operations -- the incoming primary or the incoming
3 secondary. Three-digit packages within the 3/5-digit presort rate category flow to the
4 incoming secondary operation after starting piece distribution in the incoming primary
5 operation, while 5-digit packages within the 3/5-digit presort rate category begin
6 piece distribution in the incoming secondary operation.

7 The Periodicals 3-digit rate models are similar to the First-Class 3/5-digit rate
8 models in that they account for the flow of flats to either of only two operations -- the
9 incoming primary or the incoming secondary. Specifically, 3-digit packages flow to
10 the incoming secondary operation after starting at the incoming primary operation,
11 while 5-digit packages begin distribution at the incoming secondary operation.

12 The Periodicals 5-digit rate models are some of the least complex presented in
13 this testimony, since all 5-digit rate mail begins piece distribution in the incoming
14 secondary operation.

15 For all basic rate flats mail, the operations included in the models are the
16 outgoing primary, the outgoing secondary, the ADC, the SCF, the incoming primary
17 (IP), and the incoming secondary (IS) distribution operations. Basic mail includes
18 mixed ADC and ADC bundles of flats. Mail in mixed ADC bundles begin piece
19 distribution in the outgoing primary operation and downflow to all other operations
20 based on the downflow densities shown in LR-H-134, Section 1.2, page 10. Flats in
21 ADC bundles begin piece distribution in the ADC operation and downflow according
22 to the same set of downflow densities.

1 2) MODEL METHODOLOGY

2
3 As in Docket Nos. MC96-2 and MC95-1, flow models and cost summary
4 sheets are used to develop piece distribution costs; the methodology used in this
5 testimony is similar. Differences between the current and past flats mail processing
6 analyses occur as a result of changes to the rate category makeup and the changing
7 complexion of the flats mail processing environment. A detailed discussion of these
8 changes is presented in Section V.

9 Each flow model consists of a theorized flow depicting 10,000 pieces of flats
10 mail belonging to a specific rate category and processing category through a series
11 of piece distribution operations. The number of handlings, or sorts, is computed for
12 each operation. These computations make use of a number of inputs: acceptance
13 rates, coverage factors, downflow densities, and a profile of the mail composition as
14 it enters piece distribution.

15 Each cost summary sheet calculates the volume variable piece distribution
16 cost corresponding to a flow model. This calculation makes use of a number of
17 inputs: the test year wage rate, operation-specific piggyback factors, the premium
18 pay factor, downflow densities, and the number of handlings from the flow model. For
19 each operation in which piece distribution occurs, the total direct and indirect per-
20 piece cost is developed. First, the direct cost, excluding premium pay, is calculated
21 through the application of the test year wage rate to the operation-specific
22 productivity. The operation-specific piggyback factor and the premium pay factor are
23 then used to reflect the total direct and indirect cost associated with each operation.
24 The number of handlings that are computed for each operation in the flow model is
25 then applied to the operation-specific total direct and indirect per-piece costs to

1 arrive at a weighted modeled piece distribution cost for each operation that is simply
2 summed over all operations.

3

4 C. DEVELOPMENT OF NON-CARRIER ROUTE BUNDLE SORTING AND
5 OPENING UNIT COSTS

6

7 This section of testimony details the bundle sorting methodology for non-
8 carrier route flats mail. The methodology is identical to that used in USPS-T-4 of
9 Docket No. MC96-2.

10

11 1) MODEL CONSTRUCT

12

13 Flats mail may be prepared for mailing in bundles over a range of package
14 and container presort levels in accordance with the requirements set forth in the
15 Domestic Mail Manual (DMM). Non-carrier route presort packages and sacks may
16 be prepared as: mixed ADC, ADC, or 3/5-digit (or alternatively 3-digit, and 5-digit in
17 the case of Periodicals).

18 Like the piece distribution models, the bundle sorting models develop costs for
19 the barcoding and presorting levels, thus disaggregating the rate category level.
20 Accordingly, bundle sorting costs are developed separately for the three mail
21 categories: automation, machinable, and nonmachinable.

1 2) MODEL METHODOLOGY

2
3 The bundle sorts and opening unit costs that a package incurs during mail
4 processing are modeled as a function of the container presort. For example, bundles
5 mailed in a mixed ADC sack that is opened and dumped in an origin processing
6 plant receive more handlings in the process of being sorted to finer container
7 separations than do bundles in a 3-digit sack. Three-digit sacks are not opened until
8 they reach the destination SCF, and the packages need only be sorted to containers
9 for transfer to incoming primary or incoming secondary operations, or for dispatch to
10 delivery units.

11 Bundle sorts and opening unit cost treatment are obtained using the
12 estimation methodology employed most recently by witnesses Brattli and Seckar in
13 Docket No. MC96-2. All estimates of the number of bundle sorts/opening units are
14 adopted from the analysis in Docket MC-96-2, and their derivation is explained in the
15 following three paragraphs.

16 Bundles in mixed ADC containers receive one bundle sort to destination ADCs
17 at the origin facility or origin ADC. There the container is opened and the bundles
18 inside are placed in new containers to the destination ADC. These bundles receive a
19 second sort to destination SCFs at the destination ADC, after the ADC sacks made
20 up at origin postal facilities are opened and worked. A third sort is made at the
21 destination SCF after the destination SCF or 3-digit sacks made up at destination
22 ADCs are opened. In addition, all 5-digit bundles (whether prepared directly by the
23 mailer or by the Postal Service after one or more piece distribution operations) are
24 estimated to have a 50.8 percent probability of requiring bundle sorting and/or
25 opening unit preparation prior to going to the incoming secondary operation. See

1 USPS-T-4, page 21, Docket No. MC96-2. Therefore, in total, a bundle in a mixed
2 ADC container receives/passes through approximately 3.508 bundle sorts/opening
3 units.

4 It follows that bundles in ADC containers undergo one fewer sortation/opening
5 unit than bundles in mixed ADC containers. That is, they receive one at the
6 destination ADC where they are initially opened and re-containerized to destination
7 SCFs; one at the destination SCF; and 0.508 prior to the incoming secondary
8 operation. In total, each package in an ADC container receives/passes through
9 2.508 bundle sorts/opening units

10 Likewise, bundles in 3-digit containers receive/pass through a total of 1.508
11 bundle sorts/opening units, one less than bundles in ADC containers. They incur
12 one in the opening unit at the destination SCF and 0.508 prior to the incoming
13 secondary operation. Finally, bundles in 5-digit containers receive/pass through a
14 total of 0.508 bundle sorts/opening units.

15 Through the use of a productivity, piggyback factors, and premium pay factors,
16 volume variable per piece bundle sorting and opening unit costs are calculated for
17 each container presort level within each rate category. These costs are then applied
18 to the number of bundle sorts received by packages within a given container level,
19 resulting in a per-piece cost. These costs are then weighted together over all
20 container levels within a rate category according to the distribution of mail volume
21 within each of the container presort types. These weighted bundle sorting/opening
22 unit costs are the final output of the bundle sorting and opening unit cost model.

1 **D. DEVELOPMENT OF CARRIER ROUTE COSTS**

2

3 Sections IV(C)(1) and IV(C)(2) detail the methodology for estimating the piece
4 distribution and bundle sorting costs of non-carrier route flats mail. This section
5 focuses on the estimation of volume variable mail processing costs for carrier route
6 flats mail.

7 Carrier route categories of flats mail exist only in the Periodicals and Standard
8 Mail (A) classes. The Standard Mail (A) carrier route mail processing costs are
9 developed entirely through use of the benchmark model, as detailed in LR-H-106.
10 The benchmark costs for Periodicals contain the costs associated with both the non-
11 carrier route and carrier route categories. This is true for both the Regular and
12 Nonprofit subclasses of Periodicals. Hence, two benchmark costs exist for
13 Periodicals mail, one for the Regular subclass and one for the Nonprofit subclass,
14 each of which contains both carrier route and non-carrier route rate category costs.
15

16 **1) MODEL CONSTRUCT**

17

18 Periodicals carrier route flats are prepared by mailers in a fashion similar to
19 non-carrier route flats. For the purposes of this model, two levels of container presort
20 are examined within carrier route mail, carrier route presort and non-carrier route
21 presort.⁷ The only permissible package presort is carrier route. Mailers obtain the
22 carrier route rate when: 1) carrier route packages are placed in carrier route sacks,

⁷ For the purposes of this analysis, non-carrier route presort is defined as carrier route packages in 5-digit carrier routes presort sacks and on non-carrier route presort pallets.

1 or 2) carrier route packages are placed in carrier route sacks or on presort pallets
2 with non-carrier route flats.

3

4 2) MODEL METHODOLOGY

5

6 Carrier route presort flats do not incur piece distribution handlings along with
7 non-carrier route mail, but do receive handlings in opening unit and bundle
8 distribution operations. As shown in the flow model contained in LR-H-134 on page
9 34 in each of Sections 2 and 3, carrier route packages in carrier route presort sacks⁸
10 incur only an opening unit handling at the delivery unit. Packages in containers with
11 multiple routes, including both carrier routes and non-carrier route presort sacks,
12 incur both opening unit and bundle distribution handlings.

13 This testimony develops volume variable mail processing costs for carrier
14 route presort mail using the same methodology used in Docket No. MC96-2. The
15 carrier route rate category flow model depicts a theorized flow of 10,000 pieces of
16 carrier route flats. Periodicals mail characteristics data are used to calculate the
17 portions of carrier route presort flats that enter the mail stream in carrier route
18 containers and non-carrier route containers.

19 Per-piece direct and indirect costs are developed for each operation for which
20 carrier route mail is modeled. These costs are then weighted together to reflect the
21 mail mix across the container types. These calculations conform to the algorithm
22 used in the non-carrier route piece distribution cost summary sheets through the use

⁸ Carrier route presort sacks are those containing packages or only a single carrier route or box section.

1 of inputs specific to carrier route mail and the operations modeled.

2
3 E. DEVELOPMENT OF TOTAL CRA-LEVEL MAIL PROCESSING COSTS
4

5 In Docket Nos. MC96-2 and MC95-1, the mail processing cost analyses of
6 Periodicals flats did not rely upon CRA benchmarks to provide the costs of other mail
7 processing activities.⁹ This testimony refines the Periodicals methodology to include
8 other or "non-modeled" mail processing costs in the development of costs that are
9 input to ratemaking. This refinement to the Periodicals methodology establishes a
10 consistent treatment of worksharing costs among the classes of flats mail. These
11 costs are calculated as the final step in developing CRA-level rate category costs.

12 This final step pulls together all the costs discussed throughout Sections IV(B)
13 through IV(D), and adjusts them to reflect the full test year CRA level of costs.

14 Modeled costs for each rate category, containing piece distribution and bundle
15 sorting costs, must first be constructed by weighting together model results for those
16 rate categories that require more than one model. An example exists in the
17 nonautomation basic presort rate category which is comprised of a machinable basic
18 presort rate model and a nonmachinable basic presort rate model. Mail
19 characteristics data are used to develop the weighting factors that are used to
20 combine the model costs in such instances.

21 The rate category-specific unit bundle sorting costs are then added to the
22 piece distribution rate category unit costs. These combined costs, modeled costs,
23 are then weighted together across the rate categories that comprise the

⁹ In the context of this testimony, other mail processing costs are defined as those costs other than piece distribution, and bundle sorting and opening unit costs.

1 benchmarks. Test year before rate volumes are used to weight the categories to the
2 benchmark levels, which correspond to the flats subclass levels.

3 For example, the Periodicals Regular subclass is represented by one
4 benchmark cost. Therefore, the modeled cost for all of the Periodicals Regular rate
5 categories listed in Table III-2 must be weighted together to be consistent with the
6 benchmark.

7 To reconcile the rate category weighted modeled costs to the CRA level, the
8 benchmark costs are used. The benchmark costs can be disaggregated through the
9 use of cost pools into two types of costs, fixed and proportional. This disaggregation
10 is possible as a result of the current mail processing distribution methodology that is
11 based upon groupings of MODS operations into cost pools. As shown in LR-H-106,
12 benchmark costs result from summing the subclass costs by shape associated with
13 each MODS cost pool.¹⁰

14 Each MODS cost pool that comprises the Periodicals Regular subclass
15 benchmark can be designated as either fixed or proportional based upon the
16 operations that comprise it. By summing the two categories of cost pools a fixed
17 benchmark cost and a proportional benchmark cost result.¹¹

18 The proportional benchmark cost is divided by the weighted modeled cost to
19 form a proportional adjustment factor to the CRA level. Each rate category weighted
20 modeled cost is then multiplied by the proportional CRA adjustment factor. This
21 calculation allocates all worksharing related volume variable mail processing costs,

¹⁰ Benchmark costs input to this testimony reflect volume variable mail processing costs.

¹¹ Fixed cost pools are those that are non-worksharing related. Proportional cost pools are those that are primarily worksharing related.

1 except for those from piece distribution and bundle sorting, to the rate category in
2 the proper proportions. These are the costs that will be affected by mailers
3 performing more or less worksharing.

4 The fixed element of the benchmark cost is added to each of the rate category
5 costs. These costs are added because they are fixed and will not be affected by
6 worksharing levels; thus each rate category is allocated the same level of non-
7 worksharing costs.

8 The result of these last few calculations is disaggregated CRA-level costs
9 associated with each rate category. It is these costs that are provided as inputs to
10 the ratemaking process.

11

12 F. MODEL INPUTS

13

14 This section discusses the inputs used in the models described above. All
15 input data discussed in this section are summarized in the 'Input Information'
16 subsections of LR-H-134.¹²

17

18 1) MAIL ENTRY COMPOSITION

19

20 The flats mail entry composition data used in the flow models are developed
21 from mail characteristics data. The mail characteristics data are summarized in LR-

¹² The Input Information sections of LR-H-134 are: 1.2, 2.2, 3.2, 4.2, 5.2, 6.1, 8.2, 9.2, 10.2, and 11.2.

1 H-134,¹³ and are documented in detail in LR-H-105.

2 The mail characteristics data, and subsequently the mail entry composition
3 data, differ by class. This is a result of the First-Class data and the Standard Mail (A)
4 data existing for all three mail types: automation, machinable, and nonmachinable.
5 The Periodicals data, however exist only for the automation and nonautomation mail
6 types.

7

8 2) COVERAGE FACTORS

9

10 The flow models for the processing of all flats mail provide for the fact that
11 some origin or destination areas are served by processing plants which are not
12 equipped with certain flat sorting machines. In these plants, machinable and
13 barcoded non-carrier route flats, which would ordinarily be processed on FSMs in
14 outgoing and incoming piece distribution operations, will instead be directed to
15 manual operations.

16 To account for the lack of total FSM coverage in the flow models, this
17 testimony uses the coverage factor methodology employed in the most recent
18 analyses of flats mail processing costs as documented in Docket MC96-2. LR-H-128
19 documents the generation of all coverage factors for non-carrier route flats mail.

20 This methodology defines a coverage factor for a given class of mail as the
21 ratio of the ODIS flats volume for that mail class, originating or destinating in 3-digit
22 ZIP Code areas served by plants equipped with the particular FSMs, to the ODIS
23 flats volume for the same mail class originating or destinating in all 3-digit areas.

¹³ The summaries are provided in subsections 1.5, 2.5, 3.5, 4.5, 5.5, 8.5, 9.5, 10.5, and 11.5.

1 Coverage factors are also used to reflect the percentage of automation and
2 machinable flats mail processed manually through the incoming secondary
3 distribution operation at plants with FSMs. This is consistent with the operational
4 policy that 5-digit zones with ten or more delivery routes are to be processed on FSM
5 equipment.

6 This testimony uses the same general methodology as was used in Docket
7 No. MC96-2 to calculate incoming secondary coverage factors by mail class.
8 However, the current analysis produces Periodicals-specific coverage factors, unlike
9 past Periodicals analyses that relied upon third-class coverage factors as proxies.
10 Further, the current methodology develops incoming secondary coverage factors for
11 barcoded and machinable flats combined, whereas the previous methodology made
12 use of separate factors. A single factor is used because little precision is lost by
13 collapsing them and the models are thus, slightly simplified.¹⁴ The class-specific
14 ratios of flats volumes destinating in 5-digit zones with ten or more delivery routes
15 within those 3-digit ZIP Code areas served by FSM-equipped plants, to the flats
16 volumes destinating in all 5-digit zones within this same universe of 3-digit areas, is
17 calculated through the use of ODIS data.

18 19 3) MAIL FLOW DENSITIES

20
21 The estimates of mail flow proportions, or densities, from upstream to
22 downstream operations of flats mail are another input required by the flow models.
23 This testimony makes use of the results of USPS LR-MCR-3 from Docket No. MC95-

¹⁴ As is shown in Docket No. MC96-2, USPS-T-4B, the IS coverage factors for machinable and barcoded flats are 74.93 percent and 74.90 percent, respectively.

1 1 to provide densities for the FSM-BCR and the FSM-881 operations. It is assumed
2 that the downflow densities for the FSM-OCR are the same as the those for the
3 FSM-BCR when processing automation mail, and the same as the FSM-881 when
4 processing machinable mail. It is further assumed that the downflow densities for the
5 FSM-1000 are the same as those for the FSM-881. The manual downflow densities
6 used in this testimony are the same as those used in Docket No. MC96-2, USPS-T-4
7 and USPS-T-6.

8

9 4) OPERATION-SPECIFIC ACCEPTANCE RATES

10

11 As mentioned in Section IV(B)(2), the number of handlings calculated at each
12 operation within the flow models is a function of acceptance rates. Small proportions
13 of flats being processed in FSM operations are mechanically rejected and directed to
14 either FSM-1000 or manual distribution operations. For this reason, data were
15 required on acceptance rates for each FSM operation were necessary to this
16 testimony.

17 The acceptance rates for the FSM-BCR and FSM-881 operations are
18 documented in LR-H-113. The acceptance rates for the FSM-1000 operation are
19 assumed to be the same as those for the FSM-881. The nonmachinable acceptance
20 rates for the FSM-OCR are based on the minimum specifications that the machine
21 must meet upon deployment to the field. The machinable acceptance rates for the
22 FSM-OCR are assumed to be the same as those for the FSM-BCR since both the
23 OCR and the BCR are components of the FSM-881.

1 5) MAIL PROCESSING PRODUCTIVITIES

2
3 In past analyses of mail processing costs, as filed in Docket Nos. MC96-2 and
4 MC95-1, standard productivities were calculated for an operation by dividing the
5 annual number of pieces processed through an operation by the annual number of
6 workhours associated with the operation. These productivities were used to generate
7 100 percent volume variable mail processing costs. In this docket, the Postal Service
8 presents empirical data that mail processing costs are less than 100 percent volume
9 variable.

10 In order for the ratemaking process to reflect this level of variability, the extent
11 to which operations vary with volume must be reflected in the cost analyses that
12 provide inputs to ratemaking. Through the use of volume variabilities, standard
13 productivities developed as they have been in past analyses are modified in this
14 docket to reflect less than 100 percent volume variability of mail processing
15 operations. The standard productivities are divided by the volume variabilities to yield
16 volume variable productivities, which are used in the flow models.

17 In the past, the standard productivities used for FSM operations were derived
18 from operation-specific MODS codes. For example, the FSM-881 manual keying
19 outgoing primary productivity was derived from MODS code 141, while the outgoing
20 primary FSM-BCR scanning productivity was derived from MODS code 961.
21 Although these operations are often run at the same time, sharing loading and
22 sweeping labor, the flow models treat these operations as separate. To accurately
23 treat the operations as separate, the productivities should reflect the FSM-881
24 keying operation strictly in a manual keying environment, and the FSM-BCR
25 scanning operation strictly in a scanning environment. In such environments, the

1 operations would not be run together.

2 To reflect the manual keying environment, FY93 MODS data were used to
3 develop the FSM-881 productivities. FY93 was chosen because there were relatively
4 few barcoded flats at that point in time, allowing for the vast majority of FSM
5 operations to be run in a pure keying mode.

6 The FSM-BCR productivity is based on the following. From the engineering
7 test results presented by witness Pham, USPS-T-2, Docket No. MC91-1, a ratio of
8 the FSM-BCR productivity to the FSM-881 productivity can be calculated. The ratio,
9 1.53, shows the FSM-BCR productivity to be about 53 percent higher than the FSM-
10 881 productivity. When this factor is applied to the FY93 FSM-881 productivity
11 aggregated across all sort levels, the result is about 1150. This figure is adjusted
12 downward to 1100 to be conservative, and is used in the models.

13 The manual piece distribution productivities are developed using FY96 MODS
14 data, and are documented in LR-H-113. The FSM-1000 standard productivity results
15 from an engineering field test of the FSM-1000. The results of this test are
16 summarized in LR-H-169. In accordance with USPS Engineering budget plans, the
17 standard productivity for the FSM-OCR is assumed to be the same as the FSM-
18 BCR.

19 The standard productivities used in the carrier route model and the bundle
20 sorting models remain unchanged from those used in the most recent analyses of
21 flats mail processing costs. See USPS-T-4 and USPS-T-6, Docket No. MC96-2; and
22 USPS-T-11 and USPS-T-13, Docket No. MC95-1.

1 6) OTHER INPUT DATA

2
3 The models also incorporate other data inputs in order to calculate volume
4 variable mail processing unit costs. These include:

- 5 - clerk/mailhandler labor rates
6 - mail processing piggyback factors
7 - premium pay factors
8 - an estimate of the extent to which the FSM-1000 will be deployed in the
9 test year

10 The source of the test year clerk/mailhandler labor rate used in the models is LR-H-
11 146. Mail processing piggyback factors and premium pay factors are documented in
12 LR-H-77, and the FSM-1000 coverage factors are documented in LR-H-128.

1 **V. COST DEVELOPMENT REFINEMENTS**

2

3 The general methodology employed in this testimony is very similar to that
4 employed in Docket Nos. MC96-2 and MC95-1. However, the methodologies are not
5 identical. As a result it is necessary to discuss the major changes, which include:

- 6 - The planned deployment of flats equipment in the test year
7 - The model refinements that result from deployment of test year
8 equipment

9

10 **A. PLANNED TEST YEAR EQUIPMENT DEPLOYMENT**

11

12 As detailed by witness Moden (USPS-T-4), the flats processing environment is
13 becoming increasingly more mechanized and automated. Thus, the Postal Service's
14 planned deployment of flats equipment in this docket's test year is somewhat
15 different than what was planned in prior dockets' test years. The current test year
16 plans do not call for the deployment of the high-speed flats feeder. As a result, the
17 models in this testimony do not include the high-speed flats feeder.

18 The current test year plan does call for a new component, an OCR, to be
19 retrofitted onto all FSM-881s. The OCR will allow for the sortation of nonautomation
20 mail pieces without having to key information; however, it will not spray barcodes.
21 The OCR-equipped FSM is included in this analysis. The extent to which it is
22 deployed in the test year is accounted for through the use of coverage factors as
23 discussed in Section IV(E)(2).

1 B. MODEL REFINEMENTS RESULTING FROM PLANNED TEST YEAR
2 EQUIPMENT DEPLOYMENT

3

4 The entire set of flats operations planned to be active in the test year consists
5 of the FSM-881, the FSM-BCR, the FSM-1000, and the FSM-OCR. As a result, the
6 flow models in this testimony are more complex than their predecessors.

7 In Docket Nos. MC96-2 and MC95-1, the FSM-1000 and the manual
8 operations were displayed within the same nodes.¹⁵ This was feasible by assuming
9 the FSM-1000 downflow densities were the same as the manual densities and that
10 the FSM-1000 had an acceptance rate of 100 percent. These assumptions simplified
11 FSM-1000 operations to the point that the number of FSM-1000 handlings could
12 easily be calculated within the cost summary sheets from the shared node in the flow
13 model.

14 This testimony makes use of separate nodes for the two operations because
15 the FSM-1000 downflow densities are no longer assumed to be the same as manual
16 operations, but rather to be the same as FSM-881 operations. The number of
17 breakouts made during manual distribution is relatively small compared to the
18 number an FSM-1000 can make. In fact, the number of breakouts made by the FSM-
19 1000 is similar to the FSM-881. Hence, the FSM-881 downflow densities serve as
20 suitable proxies for the FSM-1000 downflow densities. Separate FSM-1000 nodes
21 also make it easier to handle acceptance rates that are less than 100 percent.

22 Because the OCR is assumed to have the same downflow densities as the
23 FSM-BCR for automation mail and the FSM-881 for machinable mail, the FSM-OCR

¹⁵ This is because the FSM-1000, like manual operations, processes mail from the nonmachinable mail stream.

1 operation can easily be handled within the same node as the FSM-BCR or the FSM-
2 881.

3 The flow models reflect an average test year deployment for the FSM-1000
4 and the FSM-OCR operations. It is estimated that the test year average deployment
5 of FSM-1000s to the field will be approximately 65 percent of the planned 340. It is
6 further estimated that the OCR will be deployed to approximately 40 percent of the
7 FSM-881s currently in the field.

LIST OF EXHIBITS

| | |
|-------------|--|
| USPS-T-26A: | FIRST-CLASS FLATS |
| USPS-T-26B: | PERIODICALS REGULAR RATE FLATS |
| USPS-T-26C: | PERIODICALS NONPROFIT FLATS |
| USPS-T-26D: | STANDARD MAIL (A) REGULAR RATE FLATS |
| USPS-T-26E: | STANDARD MAIL (A) NONPROFIT FLATS |
| USPS-T-26F: | PERIODICALS REGULAR RATE FLATS, CONSTANT MAIL ENTRY |
| USPS-T-26G: | PERIODICALS NONPROFIT FLATS, CONSTANT MAIL ENTRY |
| USPS-T-26H: | STANDARD MAIL (A) REGULAR RATE FLATS, CONSTANT MAIL ENTRY |
| USPS-T-26I: | STANDARD MAIL (A) NONPROFIT FLATS, CONSTANT MAIL ENTRY |
| USPS-T-26J: | PRESORT COMPOSITION |

EXHIBIT A: FIRST-CLASS FLATS

This exhibit reproduces the results from LR-H-134, Section 1,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Model Costs

Page 5 Mail Processing CRA Costs Calculations

Page 6 Volumes

MAIL PROCESSING COST ESTIMATES

First-Class Flats

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-------------------------------|--------------------------------|---------|------------------|-----------------------------|-------------------------------|-------------------------------|
| | Mailflow Processing Cost | Weight | Weighted Cost | CRA Adjustment Factor | Fixed CRA Costs, Add On | Total Volume Variable Cost |
| Automation, Basic Presort | 12.2797 | 100.00% | 12.2797 | 1.9683 | 2.2123 | 26.3818 |
| Automation, 3/5-Digit Presort | 5.4766 | 100.00% | 5.4766 | 1.9683 | 2.2123 | 12.9917 |
| Nonautomation, Presort | | | | | | |
| Nonmachinable | 12.2260 | 77.28% | 9.4477 | | | |
| Machinable | 10.2184 | 22.72% | 2.3221 | | | |
| | | 100.00% | 11.7698 | 1.9683 | 2.2123 | 25.3783 |

- (1) From page 4
(2) Weights based on volumes from page 6
(3) Equals Column (1) multiplied by Column (2)
(4) From page 3
(5) From page 3
(6) Equals Column (3) multiplied by Column (4) added to Column (5)

CRA ADJUSTMENT FACTOR

First-Class Flats

| | (1) | (2) | (3) |
|------------------------------------|--------------|---------|---------------|
| | Modeled Cost | Weight | Weighted Cost |
| Automation, Basic Presort | 12.2797 | 7.72% | 0.9481 |
| Automation, 3/5-Digit Presort | 5.4766 | 37.03% | 2.0281 |
| Nonautomation, Presort | | | |
| Nonmachinable | 12.2260 | 42.69% | 5.2196 |
| Machinable | 10.2184 | 12.55% | 1.2829 |
| | | 100.00% | 9.4787 |
| Proportional Benchmark Cost | 18.6565 | (4) | |
| Modeled Cost | 9.4787 | (5) | |
| Proportional CRA Adjustment Factor | 1.9683 | (6) | |
| Fixed CRA Costs | 2.2123 | (4) | |

- (1) From page 4
- (2) From page 6
- (3) Equals Column (1) multiplied by Column (2)
- (4) From page 5
- (5) Weighted average from above
- (6) Equals (4) divided by (5)

MODEL COSTS

First-Class Flats

| | (1) | (2) | (3) |
|-------------------------------|----------------------|---------------------|-----------------------|
| | Unit Modeled Cost | Bundle Sort Cost | Total Modeled Cost |
| Automation, Basic Presort | 9.5986 | 2.6811 | 12.2797 |
| Automation, 3/5-Digit Presort | 4.1378 | 1.3388 | 5.4766 |
| Nonautomation, Presort | | | |
| Nonmachinable | 10.8448 | 1.3813 | 12.2260 |
| Machinable | 8.8371 | 1.3813 | 10.2184 |

- (1) From flow model summary sheets
 (2) From the Bundle Sorting model
 (3) Equals Column (1) plus Column (2)

Mail Processing CRA Costs Calculations (from USPS LR-H-106)

| Location | Cost Pool | 1C PRST NCarr- Rt | Proportional | Fixed | Proportional | Fixed |
|----------|-----------|----------------------|--------------|--------|--------------|--------|
| mods | bcs/ | 0.0015 | X | | 0.0015 | |
| mods | express | 0.0014 | X | | 0.0014 | |
| mods | fsm/ | 7.2705 | X | | 7.2705 | |
| mods | ism/ | 0.0072 | X | | 0.0072 | |
| mods | manf | 2.8913 | X | | 2.8913 | |
| mods | manl | 0.3712 | X | | 0.3712 | |
| mods | manp | 0.0640 | X | | 0.0640 | |
| mods | mecparc | 0.0014 | X | | 0.0014 | |
| mods | ocr/ | 0.0006 | X | | 0.0006 | |
| mods | priority | 0.0002 | X | | 0.0002 | |
| mods | spbs Oth | 0.1432 | X | | 0.1432 | |
| mods | spbsPrio | 0.1029 | X | | 0.1029 | |
| mods | BusReply | 0.0001 | X | | 0.0001 | |
| mods | INTL | 0.0000 | X | | 0.0000 | |
| mods | LD15 | 0.0000 | X | | 0.0000 | |
| mods | LD41 | 0.0000 | X | | 0.0000 | |
| mods | LD42 | 0.0001 | X | | 0.0001 | |
| mods | LD43 | 0.8088 | X | | 0.8088 | |
| mods | LD44 | 0.1113 | X | | 0.1113 | |
| mods | LD48 Exp | 0.0000 | X | | 0.0000 | |
| mods | LD48 Oth | 0.0246 | X | | 0.0246 | |
| mods | LD48_SSv | 0.0192 | X | | 0.0192 | |
| mods | LD49 | 0.8080 | X | | 0.8080 | |
| mods | LD79 | 0.1872 | X | | 0.1872 | |
| mods | MAILGRAM | 0.0000 | X | | 0.0000 | |
| mods | Registry | 0.0006 | X | | 0.0006 | |
| mods | REWRAP | 0.0049 | X | | 0.0049 | |
| mods | 1Bulk pr | 0.0291 | X | | 0.0291 | |
| mods | 1CancMPP | 0.4800 | X | | 0.4800 | |
| mods | 1EEQMT | 0.0620 | X | | 0.0620 | |
| mods | 1MISC | 0.1817 | X | | 0.1817 | |
| mods | 1OPbulk | 0.6947 | X | | 0.6947 | |
| mods | 1OPpref | 1.0162 | X | | 1.0162 | |
| mods | 1Platfrm | 1.3665 | | X | | 1.3665 |
| mods | 1POUCHNG | 0.4953 | X | | 0.4953 | |
| mods | 1SackS_h | 0.1719 | | X | | 0.1719 |
| mods | 1SackS_m | 0.3639 | | X | | 0.3639 |
| mods | 1SCAN | 0.0558 | X | | 0.0558 | |
| mods | 1SUPPORT | 0.2077 | X | | 0.2077 | |
| BMCs | nmo | 0.0000 | | X | | 0.0000 |
| BMCs | psm | 0.0000 | | X | | 0.0000 |
| BMCs | spb | 0.0000 | | X | | 0.0000 |
| BMCs | ssm | 0.0000 | | X | | 0.0000 |
| BMCs | Othr | 0.0000 | | X | | 0.0000 |
| BMCs | Pla | 0.0000 | | X | | 0.0000 |
| Non Mods | | 2.9236 | 89.40% | 10.60% | 2.6137 | 0.3099 |
| Total | | 20.8688 | | | 18.6565 | 2.2123 |

VOLUMES

First-Class Flats

| | (1) | (2) | (3) | (4) | (5) |
|---------|-------------|------------|---------------|---------------|-------------|
| | Automation | | Nonautomation | Presort | |
| | 3/5-Digit | Basic | Machinable | Nonmachinable | Total |
| Presort | 233,523,000 | 48,688,000 | 79,168,946 | 269,215,054 | 630,595,000 |
| | 37.03% | 7.72% | 12.55% | 42.69% | 100.00% |

(1) From Flats Volumes.

(2) From Flats Volumes.

(3) From Flats Volumes, weighted by the proportion of Nonautomation pieces that are Machinable

(4) From Flats Volumes, weighted by the proportion of Nonautomation pieces that are Nonmachinable

(5) Equals the sum of Columns (1) through (4).

EXHIBIT B: PERIODICALS REGULAR RATE FLATS

This exhibit reproduces the results from LR-H-134, Section 2,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Model Costs

Page 6 Mail Processing CRA Costs Calculations

Page 7 Volumes

FLAT MAIL PROCESSING COST ESTIMATES

Periodicals Regular Rate Flats

| | (1) Mailflow Processing Cost | (2) CRA Adjustment Factor | (3) Fixed CRA Costs, Add- On | (4) Total Volume Variable Cost |
|--------------------------------|---------------------------------------|------------------------------------|---------------------------------------|--|
| Automation, Basic Presort | 14.0289 | 1.2687 | 2.8700 | 20.6688 |
| Automation, 3-Digit Presort | 9.6885 | 1.2687 | 2.8700 | 15.1620 |
| Automation, 5-Digit Presort | 5.0589 | 1.2687 | 2.8700 | 9.2883 |
| Nonautomation, Basic Presort | 13.9123 | 1.2687 | 2.8700 | 20.5209 |
| Nonautomation, 3-Digit Presort | 9.1005 | 1.2687 | 2.8700 | 14.4160 |
| Nonautomation, 5-Digit Presort | 5.9346 | 1.2687 | 2.8700 | 10.3994 |
| Carrier Route | 1.6372 | 1.2687 | 2.8700 | 4.9472 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTOR

Periodicals Regular Rate Flats

| | (1) | (2) | (3) |
|------------------------------------|---------------------------------|---------|---------------------|
| | Modeled Flat Processing Cost | Weight | Weighted Average |
| Basic Non-Barcoded | 13.9123 | 13.52% | 1.8816 |
| 3-Digit Non-Barcoded | 9.1005 | 6.26% | 0.5699 |
| 5-Digit Non-Barcoded | 5.9346 | 16.19% | 0.9606 |
| Basic Barcoded | 14.0289 | 5.51% | 0.7731 |
| 3-Digit Barcoded | 9.6885 | 5.26% | 0.5095 |
| 5-Digit Barcoded | 5.0589 | 15.53% | 0.7857 |
| Carrier Route | 1.6372 | 37.73% | 0.6177 |
| | | 100.00% | 6.0980 |
| Proportional Benchmark Cost | 7.7367 (4) | | |
| Modeled Cost | 6.0980 (5) | | |
| Proportional CRA Adjustment Factor | 1.2687 (6) | | |
| Fixed Costs | 2.8700 (4) | | |

(1) From page 4

(2) From page 7

(3) Equals Column (1) times Column (2)

(4) From page 6

(5) Weighted Average of Column (3) above

(6) Equals (4) divided by (5)

WEIGHTED MODEL COSTS**Periodicals Regular Rate Flats**

| | (1) Total Modeled Cost | (2) Weight | (3) Weighted Cost |
|---------------------------------------|---------------------------------|---------------|----------------------|
| Nonautomation, Basic Presort | | | |
| <i>Nonmachinable, Basic Presort</i> | 15.8822 | 25.00% | 3.9706 |
| <i>Machinable, Basic Presort</i> | 13.2557 | 75.00% | 9.9418 |
| | | | 13.9123 |
| Nonautomation, 3-Digit Presort | | | |
| <i>Nonmachinable, 3-Digit Presort</i> | 10.5044 | 25.00% | 2.6261 |
| <i>Machinable, 3-Digit Presort</i> | 8.6325 | 75.00% | 6.4744 |
| | | | 9.1005 |
| Nonautomation, 5-Digit Presort | | | |
| <i>Nonmachinable, 5-Digit Presort</i> | 6.3889 | 25.00% | 1.5972 |
| <i>Machinable, 5-Digit Presort</i> | 5.7832 | 75.00% | 4.3374 |
| | | | 5.9346 |
| Automation, Basic Presort | 14.0289 | 100.00% | 14.0289 |
| Automation, 3-Digit Presort | 9.6885 | 100.00% | 9.6885 |
| Automation, 5-Digit Presort | 5.0589 | 100.00% | 5.0589 |
| Carrier Route | 1.6372 | 100.00% | 1.6372 |

(1) From page 5

(2) Column (2) equals a ratio of the specific volume to the total volume of the presort category
Volumes from page 7

(3) Equals Column (1) multiplied by Column (2)

MODEL COSTS**Periodicals Regular Rate Flats**

| | (1) | (2) | (3) |
|--|-------------------------|---------------------|-----------------------|
| | Unit Modeled Cost | Bundle Sort Cost | Total Modeled Cost |
| Basic Presort Rate Category | | | |
| Nonmachinable | 13.7967 | 2.0856 | 15.8822 |
| Machinable | 11.1701 | 2.0856 | 13.2557 |
| Barcoded | 11.4533 | 2.5756 | 14.0289 |
| Three-Digit Presort Rate Category | | | |
| Nonmachinable | 9.2793 | 1.2252 | 10.5044 |
| Machinable | 7.4073 | 1.2252 | 8.6325 |
| Barcoded | 8.1633 | 1.5252 | 9.6885 |
| Five-Digit Presort Rate Category | | | |
| Nonmachinable | 5.4059 | 0.9831 | 6.3889 |
| Machinable | 4.8001 | 0.9831 | 5.7832 |
| Barcoded | 3.7437 | 1.3152 | 5.0589 |
| Carrier Route Presort Rate Category | 1.6372 | - | 1.6372 |

(1) From Flow Model summary sheets

(2) From Bundle Sorting Model

(3) Equals Column (1) plus Column (2)

Periodicals Mail Processing CRA Costs Calculations (from USPS LR-H-106)

| Location | Cost Pool | 2C Regular | Proportional | Fixed | Proportional | Fixed |
|-----------------|------------------|-------------------|---------------------|--------------|---------------------|---------------|
| mods | bcs/ | 0.0082 | X | | 0.0082 | |
| mods | express | 0.0004 | X | | 0.0004 | |
| mods | fsm/ | 1.0446 | X | | 1.0446 | |
| mods | lsm/ | 0.0024 | X | | 0.0024 | |
| mods | manf | 1.2902 | X | | 1.2902 | |
| mods | manl | 0.1573 | X | | 0.1573 | |
| mods | manp | 0.0176 | X | | 0.0176 | |
| mods | mecparc | 0.0144 | X | | 0.0144 | |
| mods | ocr/ | 0.0005 | X | | 0.0005 | |
| mods | priority | 0.0111 | X | | 0.0111 | |
| mods | spbs Oth | 0.1517 | X | | 0.1517 | |
| mods | spbsPrio | 0.0230 | X | | 0.0230 | |
| mods | BusReply | 0.0004 | X | | 0.0004 | |
| mods | INTL | 0.0261 | X | | 0.0261 | |
| mods | LD15 | 0.0595 | X | | 0.0595 | |
| mods | LD41 | 0.0026 | X | | 0.0026 | |
| mods | LD42 | 0.0017 | X | | 0.0017 | |
| mods | LD43 | 0.4654 | X | | 0.4654 | |
| mods | LD44 | 0.0713 | X | | 0.0713 | |
| mods | LD48 Exp | 0.0002 | X | | 0.0002 | |
| mods | LD48 Oth | 0.0148 | X | | 0.0148 | |
| mods | LD48_Ssv | 0.0040 | X | | 0.0040 | |
| mods | LD49 | 0.4867 | X | | 0.4867 | |
| mods | LD79 | 0.0298 | X | | 0.0298 | |
| mods | MAILGRAM | 0.0000 | X | | 0.0000 | |
| mods | Registry | 0.0011 | X | | 0.0011 | |
| mods | REWRAP | 0.0057 | X | | 0.0057 | |
| mods | 1Bulk pr | 0.0076 | X | | 0.0076 | |
| mods | 1CancMPP | 0.0465 | X | | 0.0465 | |
| mods | 1EEQMT | 0.0591 | X | | 0.0591 | |
| mods | 1MISC | 0.0832 | X | | 0.0832 | |
| mods | 1OPbulk | 0.2766 | X | | 0.2766 | |
| mods | 1OPpref | 1.1760 | X | | 1.1760 | |
| mods | 1Platfrm | 1.3681 | | X | | 1.3681 |
| mods | 1POUCHNG | 0.4451 | X | | 0.4451 | |
| mods | 1SackS_h | 0.3277 | | X | | 0.3277 |
| mods | 1SackS_m | 0.2086 | | X | | 0.2086 |
| mods | 1SCAN | 0.0260 | X | | 0.0260 | |
| mods | 1SUPPORT | 0.0945 | X | | 0.0945 | |
| BMCs | nmo | 0.0095 | | X | | 0.0095 |
| BMCs | psm | 0.0030 | | X | | 0.0030 |
| BMCs | spb | 0.0299 | X | | 0.0299 | |
| BMCs | ssm | 0.1803 | | X | | 0.1803 |
| BMCs | Othr | 0.1018 | | X | | 0.1018 |
| BMCs | Pla | 0.1713 | | X | | 0.1713 |
| Non Mods | | 2.1009 | 76.22% | 23.78% | 1.6014 | 0.4995 |
| Total | | 10.6067 | | | 7.7367 | 2.8700 |

VOLUMES

Periodicals Regular Rate Flats

| | (1) Barcoded | (2) Machinable | (3) Nonmachinable | (4) Carrier Route | (5) Total |
|---------------|-------------------------|-------------------------|----------------------|-------------------------|--------------------------|
| Basic | 359,139,092 5.51% | 661,009,956 10.14% | 220,336,652 3.38% | - | 1,240,485,700 19.04% |
| 3-Digit | 342,669,589 5.26% | 306,067,634 4.70% | 102,022,545 1.57% | - | 750,759,768 11.52% |
| 5-Digit | 1,012,091,994 15.53% | 791,115,553 12.14% | 263,705,184 4.05% | - | 2,066,912,731 31.72% |
| Carrier Route | | | | 2,458,556,802 37.73% | 2,458,556,802 37.73% |
| Total | 1,713,900,675 26.30% | 1,758,193,142 26.98% | 586,064,381 8.99% | 2,458,556,802 37.73% | 6,516,715,000 100.00% |

| | (6) Barcoded Flats | (7) Non-Barcoded Flats | (8) Carrier Route | (9) Total |
|-----------------|-------------------------|------------------------------|-------------------------|--------------------------|
| Basic Presort | 359,139,092 5.51% | 881,346,608 13.52% | - | 1,240,485,700 19.04% |
| 3-Digit Presort | 342,669,589 5.26% | 408,090,178 6.26% | - | 750,759,768 11.52% |
| 5-Digit Presort | 1,012,091,994 15.53% | 1,054,820,737 16.19% | - | 2,066,912,731 31.72% |
| Carrier Route | | | 2,458,556,802 37.73% | 2,458,556,802 37.73% |
| Total | 1,713,900,675 26.30% | 2,344,257,523 35.97% | 2,458,556,802 37.73% | 6,516,715,000 100.00% |

- (1) From Column (6)
 (2) 75% of Column (7); (75% of Periodicals Non-Barcoded mail is machinable; Refer to USPS LR-H-105)
 (3) 25% of Column (7); (25% of Periodicals Non-Barcoded mail is nonmachinable; Refer to USPS LR-H-105)
 (4) From Column (8)
 (5) Sum of Columns (1) through (4)
 (6) From Flats Volumes
 (7) From Flats Volumes
 (8) From Flats Volumes
 (9) Sum of Columns (6) through (8)

EXHIBIT C: PERIODICALS NONPROFIT FLATS

This exhibit reproduces the results from LR-H-134, Section 3,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Model Costs

Page 6 Mail Processing CRA Costs Calculations

Page 7 Volumes

FLAT MAIL PROCESSING COST ESTIMATES

Periodicals Nonprofit Flats

| | (1) | (2) | (3) | (4) |
|--------------------------------|--------------------------------|-----------------------------|--------------------------------|----------------------------------|
| | Mailflow Processing Cost | CRA Adjustment Factor | Fixed CRA Costs, Add- On | Total Volume Variable Cost |
| Automation, Basic Presort | 13.9807 | 0.8268 | 1.5982 | 13.1577 |
| Automation, 3-Digit Presort | 9.6334 | 0.8268 | 1.5982 | 9.5633 |
| Automation, 5-Digit Presort | 5.0489 | 0.8268 | 1.5982 | 5.7728 |
| Nonautomation, Basic Presort | 14.6456 | 0.8268 | 1.5982 | 13.7075 |
| Nonautomation, 3-Digit Presort | 7.4979 | 0.8268 | 1.5982 | 7.7976 |
| Nonautomation, 5-Digit Presort | 5.8177 | 0.8268 | 1.5982 | 6.4084 |
| Carrier Route | 1.4575 | 0.8268 | 1.5982 | 2.8033 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTOR

Periodicals Nonprofit Flats

| | (1) | (2) | (3) |
|------------------------------------|---------------------------------|---------|---------------------|
| | Modeled Flat Processing Cost | Weight | Weighted Average |
| Basic Non-Barcoded | 14.6456 | 11.24% | 1.6461 |
| 3-Digit Non-Barcoded | 7.4979 | 4.42% | 0.3315 |
| 5-Digit Non-Barcoded | 5.8177 | 13.47% | 0.7838 |
| Basic Barcoded | 13.9807 | 4.15% | 0.5795 |
| 3-Digit Barcoded | 9.6334 | 3.40% | 0.3273 |
| 5-Digit Barcoded | 5.0489 | 13.81% | 0.6972 |
| Carrier Route | 1.4575 | 49.52% | 0.7217 |
| | | 100.00% | 5.0871 |
| Proportional Benchmark Cost | 4.2061 (4) | | |
| Modeled Cost | 5.0871 (5) | | |
| Proportional CRA Adjustment Factor | 0.8268 (6) | | |
| Fixed Costs | 1.5982 (4) | | |

(1) From page 4

(2) From page 7

(3) Equals Column (1) times Column (2)

(4) From page 6

(5) Weighted Average of Column (3) above

(6) Equals (4) divided by (5)

WEIGHTED MODEL COSTS

Periodicals Nonprofit Flats

| | (1) Total Modeled Cost | (2) Weight | (3) Weighted Cost |
|---------------------------------------|---------------------------------|---------------|-------------------------|
| Nonautomation, Basic Presort | | | 14.6456 |
| <i>Nonmachinable, Basic Presort</i> | 15.4940 | 67.00% | 10.3810 |
| <i>Machinable, Basic Presort</i> | 12.9231 | 33.00% | 4.2646 |
| Nonautomation, 3-Digit Presort | | | 7.4979 |
| <i>Nonmachinable, 3-Digit Presort</i> | 8.2672 | 67.00% | 5.5390 |
| <i>Machinable, 3-Digit Presort</i> | 5.9359 | 33.00% | 1.9589 |
| Nonautomation, 5-Digit Presort | | | 5.8177 |
| <i>Nonmachinable, 5-Digit Presort</i> | 6.0179 | 67.00% | 4.0320 |
| <i>Machinable, 5-Digit Presort</i> | 5.4111 | 33.00% | 1.7857 |
| Automation, Basic Presort | 13.9807 | 100.00% | 13.9807 |
| Automation, 3-Digit Presort | 9.6334 | 100.00% | 9.6334 |
| Automation, 5-Digit Presort | 5.0489 | 100.00% | 5.0489 |
| Carrier Route | 1.4575 | 100.00% | 1.4575 |

- (1) From page 5
- (2) Column (2) equals a ratio of the specific volume to the total volume of the presort category
Volumes from page 7
- (3) Equals Column (1) multiplied by Column (2)

MODEL COSTS

Periodicals Nonprofit Flats

| | (1) Unit Modeled Cost | (2) Bundle Sort Cost | (3) Total Modeled Cost |
|--|--------------------------------|----------------------------|---------------------------------|
| Basic Presort Rate Category | | | |
| Nonmachinable | 13.4414 | 2.0526 | 15.4940 |
| Machinable | 10.8705 | 2.0526 | 12.9231 |
| Barcoded | 11.4078 | 2.5728 | 13.9807 |
| Three-Digit Presort Rate Category | | | |
| Nonmachinable | 7.0926 | 1.1745 | 8.2672 |
| Machinable | 4.7614 | 1.1745 | 5.9359 |
| Barcoded | 8.1276 | 1.5058 | 9.6334 |
| Five-Digit Presort Rate Category | | | |
| Nonmachinable | 5.4196 | 0.5983 | 6.0179 |
| Machinable | 4.8128 | 0.5983 | 5.4111 |
| Barcoded | 3.7537 | 1.2952 | 5.0489 |
| Carrier Route Presort Rate Category | 1.4575 | - | 1.4575 |

1) From Flow Model summary sheets

2) From Bundle Sorting Model

3) Equals Column (1) plus Column (2)

Periodicals Nonprofit Mail Processing CRA Costs Calculations (from LR-H-106)

| Location | Cost Pool | 2C Non Prof | Proportional | Fixed | Proportional | Fixed |
|--------------|-----------|---------------|--------------|--------|---------------|---------------|
| mods | bcs/ | 0.0038 | X | | 0.0038 | |
| mods | express | 0.0003 | X | | 0.0003 | |
| mods | fsm/ | 0.6702 | X | | 0.6702 | |
| mods | ism/ | 0.0014 | X | | 0.0014 | |
| mods | manf | 0.6154 | X | | 0.6154 | |
| mods | manl | 0.0575 | X | | 0.0575 | |
| mods | manp | 0.0117 | X | | 0.0117 | |
| mods | mecparc | 0.0153 | X | | 0.0153 | |
| mods | ocr/ | 0.0097 | X | | 0.0097 | |
| mods | priority | 0.0005 | X | | 0.0005 | |
| mods | spbs Oth | 0.1248 | X | | 0.1248 | |
| mods | spbsPrio | 0.0112 | X | | 0.0112 | |
| mods | BusReply | 0.0001 | X | | 0.0001 | |
| mods | INTL | 0.0069 | X | | 0.0069 | |
| mods | LD15 | 0.0000 | X | | 0.0000 | |
| mods | LD41 | 0.0000 | X | | 0.0000 | |
| mods | LD42 | 0.0001 | X | | 0.0001 | |
| mods | LD43 | 0.2406 | X | | 0.2406 | |
| mods | LD44 | 0.0293 | X | | 0.0293 | |
| mods | LD48 Exp | 0.0000 | X | | 0.0000 | |
| mods | LD48 Oth | 0.0096 | X | | 0.0096 | |
| mods | LD48_Ssv | 0.0021 | X | | 0.0021 | |
| mods | LD49 | 0.4073 | X | | 0.4073 | |
| mods | LD79 | 0.0584 | X | | 0.0584 | |
| mods | MAILGRAM | 0.0000 | X | | 0.0000 | |
| mods | Registry | 0.0001 | X | | 0.0001 | |
| mods | REWRAP | 0.0006 | X | | 0.0006 | |
| mods | 1Bulk pr | 0.0012 | X | | 0.0012 | |
| mods | 1CancMPP | 0.0138 | X | | 0.0138 | |
| mods | 1EEQMT | 0.0291 | X | | 0.0291 | |
| mods | 1MISC | 0.0534 | X | | 0.0534 | |
| mods | 1OPbulk | 0.0844 | X | | 0.0844 | |
| mods | 1OPpref | 0.6115 | X | | 0.6115 | |
| mods | 1Platfrm | 0.6098 | | X | | 0.6098 |
| mods | 1POUCHNG | 0.2840 | X | | 0.2840 | |
| mods | 1SackS_h | 0.2203 | | X | | 0.2203 |
| mods | 1SackS_m | 0.2452 | | X | | 0.2452 |
| mods | 1SCAN | 0.0013 | X | | 0.0013 | |
| mods | 1SUPPORT | 0.0470 | X | | 0.0470 | |
| BMCs | nmo | 0.0001 | | X | | 0.0001 |
| BMCs | psm | 0.0000 | | X | | 0.0000 |
| BMCs | spb | 0.0417 | X | | 0.0417 | |
| BMCs | ssm | 0.0759 | | X | | 0.0759 |
| BMCs | Othr | 0.0767 | | X | | 0.0767 |
| BMCs | Pla | 0.1296 | | X | | 0.1296 |
| Non Mods | | 1.0023 | 75.99% | 24.01% | 0.7616 | 0.2407 |
| Total | | 5.8043 | | | 4.2061 | 1.5982 |

VOLUMES

Periodicals Nonprofit Flats

| | (1) | (2) | (3) | (4) |
|-----------------|-----------------------|-----------------------|-----------------------|-------------------------|
| | Barcoded Flats | Non-Barcoded Flats | Carrier Route | Total |
| Basic Presort | 82,354,370 4.15% | 223,305,689 11.24% | | 305,660,059 15.39% |
| 3-Digit Presort | 67,491,446 3.40% | 87,834,084 4.42% | | 155,325,531 7.82% |
| 5-Digit Presort | 274,343,646 13.81% | 267,665,874 13.47% | | 542,009,520 27.28% |
| Carrier Route | | | 983,732,891 49.52% | 983,732,891 49.52% |
| Total | 424,189,462 21.35% | 578,805,647 29.13% | 983,732,891 49.52% | 1,986,728,000 50.48% |

| | (5) | (6) | (7) | (8) | (9) |
|---------------|-----------------------|----------------------|-----------------------|-----------------------|--------------------------|
| | Barcoded | Machinable | Nonmachinable | Carrier Route | Total |
| Basic | 82,354,370 26.94% | 73,690,877 24.11% | 149,614,812 48.95% | | 305,660,059 100.00% |
| 3-Digit | 67,491,446 43.45% | 28,985,248 18.66% | 58,848,836 37.89% | | 155,325,531 100.00% |
| 5-Digit | 274,343,646 50.62% | 88,329,738 16.30% | 179,336,135 33.09% | | 542,009,520 100.00% |
| Carrier Route | | | | 983,732,891 49.52% | 983,732,890 94 49.52% |
| Total | 424,189,462 | 191,005,863 | 387,799,783 | 983,732,891 | 1,986,728,000 |

(1) From Flats Volumes

(2) From Flats Volumes

(3) From Flats Volumes

(4) Sum of Columns (1) through (3)

(5) From Column (1)

(6) 33% of Column (2); (33% of Periodicals Non-Barcoded mail is machinable; Refer to LR-H-105)

(7) 67% of Column (2); (67% of Periodicals Non-Barcoded mail is nonmachinable; Refer to LR-H-105)

(8) From Column (3)

(9) Sum of Columns (1) through (4)

EXHIBIT D: STANDARD MAIL (A) REGULAR RATE FLATS

This exhibit reproduces the results from LR-H-134, Section 4,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Model Costs

Page 6 Mail Processing CRA Costs Calculations

Page 7 Volumes

MAIL PROCESSING COST ESTIMATES**Standard Mail (A) Regular Rate Flats**

| | (1) | (2) | (3) | (4) |
|----------------------------------|--------------------------------|-----------------------------|-------------------------------|-------------------------------|
| | Mailflow Processing Cost | CRA Adjustment Factor | Fixed CRA Costs, Add on | Total Volume Variable Cost |
| Nonautomation, Basic Presort | 14.1727 | 1.2288 | 1.7408 | 19.1565 |
| Nonautomation, 3/5-Digit Presort | 7.8753 | 1.2288 | 1.7408 | 11.4181 |
| Automation, Basic Presort | 11.8797 | 1.2288 | 1.7408 | 16.3387 |
| Automation, 3/5-Digit Presort | 6.0996 | 1.2288 | 1.7408 | 9.2361 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTOR**Standard Mail (A) Regular Rate Flats**

| | (1) Modeled Cost | (2) Weight | (3) Weighted Cost |
|------------------------------------|---------------------|---------------|----------------------|
| Nonautomation, Basic Presort | 14.1727 | 8.48% | 1.2025 |
| Nonautomation, 3/5-Digit Presort | 7.8753 | 14.38% | 1.1322 |
| Automation, Basic Presort | 11.8797 | 1.87% | 0.2224 |
| Automation, 3/5-Digit Presort | 6.0996 | 75.27% | 4.5910 |
| | | 100.00% | 7.1481 |
| Proportional Benchmark Cost | 8.7836 (4) | | |
| Modeled Cost | 7.1481 (5) | | |
| Proportional CRA Adjustment Factor | 1.2288 (6) | | |
| Fixed CRA Costs | 1.7408 (4) | | |

(1) From page 4

(2) From page 7

(3) Equals Column (1) multiplied by Column (2)

(4) From page 6

(5) Weighted average from above

(6) Equals (4) divided by (5)

WEIGHTED MODEL COSTS**Standard Mail (A) Regular Rate Flats**

| | (1) Total Cost | (2) Weight | (3) Weighted Cost |
|---|-------------------|---------------|-------------------------|
| Nonautomation, Basic Presort | | | 14.1727 |
| Nonmachinable, Basic Presort | 14.9486 | 63.54% | 9.4976 |
| Machinable, Basic Presort | 12.8209 | 36.46% | 4.6751 |
| Nonautomation, 3/5-Digit Presort | | | 7.8753 |
| Nonmachinable, 3-Digit Presort | 13.2323 | 49.54% | 6.5558 |
| Machinable, 3-Digit Presort | 10.9338 | 50.46% | 5.5168 |
| Nonautomation, 3-Digit Presort | | | 12.0726 |
| Nonmachinable, 5-Digit Presort | 6.4965 | 42.48% | 2.7597 |
| Machinable, 5-Digit Presort | 5.5109 | 57.52% | 3.1698 |
| Nonautomation, 5-Digit Presort | | | 5.9295 |
| Automation, Basic Presort | 11.8797 | 100.00% | 11.8797 |
| Automation, 3/5-Digit Presort | | | 6.0996 |
| 3-Digit Presort | 9.0484 | 30.43% | 2.7539 |
| 5-Digit Presort | 4.8095 | 69.57% | 3.3457 |

(1) From page 5

(2) From page 7

(3) Equals Column (1) multiplied by Column (2)

MODEL COSTS**Standard Mail (A) Regular Rate Flats**

| | (1) | (2) | (3) |
|------------------------------------|----------------------|---------------------|-----------------------|
| | Unit Modeled Cost | Bundle Sort Cost | Total Modeled Cost |
| <i>Automation, Basic Presort</i> | 10.0043 | 1.8754 | 11.8797 |
| <i>Automation, 3-Digit Presort</i> | 7.8913 | 1.1571 | 9.0484 |
| <i>Automation, 5-Digit Presort</i> | 3.6525 | 1.1571 | 4.8095 |
| Nonautomation, Basic Presort | | | |
| Nonmachinable | 13.2528 | 1.6958 | 14.9486 |
| Machinable | 11.0805 | 1.7405 | 12.8209 |
| Nonautomation, 3-Digit Presort | | | |
| Nonmachinable | 12.2333 | 0.9990 | 13.2323 |
| Machinable | 10.0689 | 0.8649 | 10.9338 |
| Nonautomation, 5-Digit Presort | | | |
| Nonmachinable | 5.4975 | 0.9990 | 6.4965 |
| Machinable | 4.6459 | 0.8649 | 5.5109 |

(1) *From flow model summary sheets*(2) *From the Bundle Sorting Model*(3) *Equals Column (1) plus Column (2)*

Mail Processing CRA Costs Calculations (from USPS LR-H-106)

| Location | Cost Pool | STD RR Other | Proportional | Fixed | Proportional | Fixed |
|--------------|-----------|----------------|--------------|--------|---------------|---------------|
| mods | bcs/ | 0.0363 | X | | 0.0363 | |
| mods | express | 0.0005 | X | | 0.0005 | |
| mods | fsm/ | 2.7644 | X | | 2.7644 | |
| mods | ism/ | 0.0040 | X | | 0.0040 | |
| mods | manf | 1.1659 | X | | 1.1659 | |
| mods | manl | 0.1437 | X | | 0.1437 | |
| mods | manp | 0.0209 | X | | 0.0209 | |
| mods | mecparc | 0.0047 | X | | 0.0047 | |
| mods | ocr/ | 0.0058 | X | | 0.0058 | |
| mods | priority | 0.0026 | X | | 0.0026 | |
| mods | spbs Oth | 0.2807 | X | | 0.2807 | |
| mods | spbsPrio | 0.0117 | X | | 0.0117 | |
| mods | BusReply | 0.0018 | X | | 0.0018 | |
| mods | INTL | 0.0115 | X | | 0.0115 | |
| mods | LD15 | 0.0000 | X | | 0.0000 | |
| mods | LD41 | 0.0012 | X | | 0.0012 | |
| mods | LD42 | 0.0080 | X | | 0.0080 | |
| mods | LD43 | 0.4218 | X | | 0.4218 | |
| mods | LD44 | 0.0794 | X | | 0.0794 | |
| mods | LD48 Exp | 0.0002 | X | | 0.0002 | |
| mods | LD48 Oth | 0.0143 | X | | 0.0143 | |
| mods | LD48_Ssv | 0.0053 | X | | 0.0053 | |
| mods | LD49 | 0.0843 | X | | 0.0843 | |
| mods | LD79 | 0.1187 | X | | 0.1187 | |
| mods | MAILGRAM | 0.0000 | X | | 0.0000 | |
| mods | Registry | 0.0004 | X | | 0.0004 | |
| mods | REWRAP | 0.0037 | X | | 0.0037 | |
| mods | 1Bulk pr | 0.0031 | X | | 0.0031 | |
| mods | 1CancMPP | 0.0160 | X | | 0.0160 | |
| mods | 1EEQMT | 0.0589 | X | | 0.0589 | |
| mods | 1MISC | 0.0828 | X | | 0.0828 | |
| mods | 1OPbulk | 0.6072 | X | | 0.6072 | |
| mods | 1OPpref | 0.3613 | X | | 0.3613 | |
| mods | 1Platfrm | 0.7141 | | X | | 0.7141 |
| mods | 1POUCHNG | 0.2905 | X | | 0.2905 | |
| mods | 1SackS_h | 0.1296 | | X | | 0.1296 |
| mods | 1SackS_m | 0.0620 | | X | | 0.0620 |
| mods | 1SCAN | 0.0094 | X | | 0.0094 | |
| mods | 1SUPPORT | 0.0923 | X | | 0.0923 | |
| BMCs | nmo | 0.0122 | | X | | 0.0122 |
| BMCs | psm | 0.0532 | | X | | 0.0532 |
| BMCs | spb | 0.1478 | X | | 0.1478 | |
| BMCs | ssm | 0.0960 | | X | | 0.0960 |
| BMCs | Othr | 0.2431 | | X | | 0.2431 |
| BMCs | Pla | 0.1713 | | X | | 0.1713 |
| Non Mods | | 2.1818 | 88.11% | 11.89% | 1.9224 | 0.2593 |
| Total | | 10.5245 | | | 8.7836 | 1.7408 |

VOLUMES

Standard Mail (A) Regular Rate Flats

| | (1) | (2) | (3) | (4) |
|--------------------|-------------------------|-------------------------|-------------------------|---------------------------|
| | Automation | Machinable | Nonmachinable | Total |
| Basic | 231,300,000 1.87% | 382,252,307 3.09% | 666,020,693 5.39% | 1,279,573,000 10.36% |
| <i>3/5 Presort</i> | | | | |
| 3-Digit Packages | 2,830,255,635 22.91% | 283,886,428 2.30% | 278,755,458 2.26% | 3,392,897,521 27.46% |
| 5-Digit Packages | 6,469,124,365 52.36% | 698,097,905 5.65% | 515,564,210 4.17% | 7,682,786,479 62.18% |
| Total | 9,530,680,000 77.14% | 1,364,236,640 11.04% | 1,460,340,360 11.82% | 12,355,257,000 100.00% |

| | (5) | (6) | (7) |
|--------------------|-------------------------|-------------------------|---------------------------|
| | Automation | Nonautomation | Total |
| Basic Presort | 231,300,000 1.87% | 1,048,273,000 8.48% | 1,279,573,000 10.36% |
| <i>3/5 Presort</i> | | | |
| 3-Digit Packages | 2,830,255,635 22.91% | 562,641,886 4.55% | 3,392,897,521 27.46% |
| 5-Digit Packages | 6,469,124,365 52.36% | 1,213,662,114 9.82% | 7,682,786,479 62.18% |
| Total | 9,530,680,000 77.14% | 2,824,577,000 22.86% | 12,355,257,000 100.00% |

| | (8) | (9) | (10) |
|-------------------|-------------------------|-------------------------|---------------------------|
| | Automation | Nonautomation | Total |
| Basic Presort | 231,300,000 1.87% | 1,048,273,000 8.48% | 1,279,573,000 10.36% |
| 3/5-Digit Presort | 9,299,380,000 75.27% | 1,776,304,000 14.38% | 11,075,684,000 89.64% |
| Total | 9,530,680,000 77.14% | 2,824,577,000 22.86% | 12,355,257,000 100.00% |

(1) From Column (5).

(2) Equals Column (6) weighted by the proportion of Nonautomation pieces that are machinable.

(3) Equals Column (6) weighted by the proportion of Nonautomation pieces that are nonmachinable.

(4) Equals the sum of Columns (1) through (3).

(5) From Flats Volumes

(6) From Flats Volumes

(7) Equals Column (5) plus Column (6).

(8) From Column (5). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (5).

(9) From Column (6). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (6).

(10) Equals Column (8) plus Column (9).

EXHIBIT E: STANDARD MAIL (A) NONPROFIT FLATS

This exhibit reproduces the results from LR-H-134, Section 5,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Model Costs

Page 6 Mail Processing CRA Costs Calculations

Page 7 Volumes

MAIL PROCESSING COST ESTIMATES

| | (1) Mailflow Processing Cost | (2) CRA Adjustment Factor | (3) Fixed CRA Costs, Add on | (4) Total Volume Variable Cost |
|----------------------------------|---------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| Nonautomation, Basic Presort | 14.71 | 1.1341 | 1.9769 | 18.6549 |
| Nonautomation, 3/5-Digit Presort | 6.24 | 1.1341 | 1.9769 | 9.0584 |
| Automation, Basic Presort | 11.95 | 1.1341 | 1.9769 | 15.5337 |
| Automation, 3/5-Digit Presort | 6.62 | 1.1341 | 1.9769 | 9.4846 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTOR**Standard Mail (A) Nonprofit Flats**

| | (1) | (2) | (3) |
|------------------------------------|--------------|---------|---------------|
| | Modeled Cost | Weight | Weighted Cost |
| Nonautomation, Basic Presort | 14.7058 | 24.45% | 3.5963 |
| Nonautomation, 3/5-Digit Presort | 6.2441 | 25.73% | 1.6065 |
| Automation, Basic Presort | 11.9537 | 3.57% | 0.4263 |
| Automation, 3/5-Digit Presort | 6.6199 | 46.25% | 3.0617 |
| | | 100.00% | 8.6908 |
| Proportional Benchmark Cost | 9.8564 | (4) | |
| Modeled Cost | 8.6908 | (5) | |
| Proportional CRA Adjustment Factor | 1.1341 | (6) | |
| Fixed CRA Costs | 1.9769 | (4) | |

(1) From page 4

(2) From page 7

(3) Equals Column (1) multiplied by Column (2)

(4) From page 6

(5) Weighted average from above

(6) Equals (4) divided by (5)

WEIGHTED MODEL COSTS**Standard Mail (A) Nonprofit Flats**

| | (1) Total Cost | (2) Weight | (3) Weighted Cost |
|---|-------------------|---------------|-------------------------|
| Nonautomation, Basic Presort | | | 14.7058 |
| Nonmachinable, Basic Presort | 21.7917 | 16.24% | 3.5383 |
| Machinable, Basic Presort | 13.3323 | 83.76% | 11.1675 |
| Nonautomation, 3/5-Digit Presort | | | 6.2441 |
| Nonmachinable, 3-Digit Presort | 13.2723 | 25.42% | 3.3744 |
| Machinable, 3-Digit Presort | 10.8681 | 74.58% | 8.1049 |
| Nonautomation, 3-Digit Presort | | | 11.479327 |
| Nonmachinable, 5-Digit Presort | 6.5487 | 7.92% | 0.5189 |
| Machinable, 5-Digit Presort | 5.4846 | 92.08% | 5.0500 |
| Nonautomation, 5-Digit Presort | | | 5.568893 |
| Automation, Basic Presort | 11.9537 | 100.00% | 11.9537 |
| Automation, 3/5-Digit Presort | | | 6.6199 |
| 3-Digit Presort | 9.1130 | 40.13% | 3.6573 |
| 5-Digit Presort | 4.9487 | 59.87% | 2.9626 |

(1) From page 5

(2) From page 7

(3) Equals Column (1) multiplied by Column (2)

MODEL COSTS

Standard Mail (A) Nonprofit Flats

| | (1) Unit Modeled Cost | (2) Bundle Sort Cost | (3) Total Modeled Cost |
|--------------------------------|-----------------------------|----------------------------|------------------------------|
| Automation, Basic Presort | 9.5974 | 2.3563 | 11.9537 |
| Automation, 3-Digit Presort | 7.7743 | 1.3387 | 9.1130 |
| Automation, 5-Digit Presort | 3.6100 | 1.3387 | 4.9487 |
| Nonautomation, Basic Presort | | | |
| Machinable | 11.0342 | 2.2981 | 13.3323 |
| Nonmachinable | 19.2359 | 2.5559 | 21.7917 |
| Nonautomation, 3-Digit Presort | | | |
| Machinable | 10.0976 | 0.7704 | 10.8681 |
| Nonmachinable | 12.3429 | 0.9295 | 13.2723 |
| Nonautomation, 5-Digit Presort | | | |
| Machinable | 4.7141 | 0.7704 | 5.4846 |
| Nonmachinable | 5.6193 | 0.9295 | 6.5487 |

(1) From flow model summary sheets

(2) From the Bundle Sorting model

(3) Equals Column (1) plus Column (2)

Mail Processing CRA Costs Calculations (from USPS LR-H-106)

| Location | Cost Pool | STD NP Other | Proportional | Fixed | Proportional | Fixed |
|----------|-----------|--------------|--------------|--------|--------------|--------|
| mods | bcs/ | 0.0112 | X | | 0.0112 | |
| mods | express | 0.0009 | X | | 0.0009 | |
| mods | fsm/ | 3.0081 | X | | 3.0081 | |
| mods | ism/ | 0.0024 | X | | 0.0024 | |
| mods | manf | 1.6380 | X | | 1.6380 | |
| mods | manl | 0.2090 | X | | 0.2090 | |
| mods | manp | 0.0004 | X | | 0.0004 | |
| mods | macparc | 0.0017 | X | | 0.0017 | |
| mods | ocr/ | 0.0128 | X | | 0.0128 | |
| mods | priority | 0.0136 | X | | 0.0136 | |
| mods | spbs Oth | 0.2439 | X | | 0.2439 | |
| mods | spbsPrio | 0.0062 | X | | 0.0062 | |
| mods | BusReply | 0.0004 | X | | 0.0004 | |
| mods | INTL | 0.0039 | X | | 0.0039 | |
| mods | LD15 | 0.0000 | X | | 0.0000 | |
| mods | LD41 | 0.0000 | X | | 0.0000 | |
| mods | LD42 | 0.0072 | X | | 0.0072 | |
| mods | LD43 | 0.6133 | X | | 0.6133 | |
| mods | LD44 | 0.0302 | X | | 0.0302 | |
| mods | LD48 Exp | 0.0004 | X | | 0.0004 | |
| mods | LD48 Oth | 0.0182 | X | | 0.0182 | |
| mods | LD48_SSv | 0.0003 | X | | 0.0003 | |
| mods | LD49 | 0.0686 | X | | 0.0686 | |
| mods | LD79 | 0.1152 | X | | 0.1152 | |
| mods | MAILGRAM | 0.0000 | X | | 0.0000 | |
| mods | Registry | 0.0002 | X | | 0.0002 | |
| mods | REWRAP | 0.0017 | X | | 0.0017 | |
| mods | 1Bulk pr | 0.0018 | X | | 0.0018 | |
| mods | 1CancMPP | 0.0125 | X | | 0.0125 | |
| mods | 1EEQMT | 0.0562 | X | | 0.0562 | |
| mods | 1MISC | 0.1019 | X | | 0.1019 | |
| mods | 1OPbulk | 0.7262 | X | | 0.7262 | |
| mods | 1OPpref | 0.6310 | X | | 0.6310 | |
| mods | 1Platfrm | 0.7938 | | X | | 0.7938 |
| mods | 1POUCHNG | 0.1910 | X | | 0.1910 | |
| mods | 1SackS_h | 0.1943 | | X | | 0.1943 |
| mods | 1SackS_m | 0.1642 | | X | | 0.1642 |
| mods | 1SCAN | 0.0039 | X | | 0.0039 | |
| mods | 1SUPPORT | 0.1117 | X | | 0.1117 | |
| BMCs | nmo | 0.0115 | | X | | 0.0115 |
| BMCs | psm | 0.0760 | | X | | 0.0760 |
| BMCs | spb | 0.1458 | X | | 0.1458 | |
| BMCs | ssm | 0.0871 | | X | | 0.0871 |
| BMCs | Othr | 0.1958 | | X | | 0.1958 |
| BMCs | Pla | 0.1801 | | X | | 0.1801 |
| Non Mods | | 2.1408 | 87.19% | 12.81% | 1.8666 | 0.2742 |
| Total | | 11.8332 | | | 9.8564 | 1.9769 |

VOLUMES

Standard Mail (A) Nonprofit Flats

| | (1) | (2) | (3) | (4) |
|------------------|-----------------------|-----------------------|----------------------|------------------------|
| | Automation | Machinable | Nonmachinable | Total |
| Basic | 58,600,000 12.73% | 336,609,362 73.10% | 65,248,638 14.17% | 460,458,000 100.00% |
| 3/5 Presort | | | | |
| 3-Digit Packages | 305,021,810 86.33% | 36,020,446 10.19% | 12,280,140 3.48% | 353,322,396 100.00% |
| 5-Digit Packages | 454,998,190 54.85% | 344,826,422 41.57% | 29,671,992 3.58% | 829,496,604 100.00% |
| Total | 818,620,000 | 717,456,229 | 107,200,771 | 1,643,277,000 |

| | (5) | (6) | (7) |
|------------------|-----------------------|-----------------------|--------------------------|
| | Automation | Nonautomation | Total |
| Basic | 58,600,000 3.57% | 401,858,000 24.45% | 460,458,000 28.02% |
| 3/5 Presort | | | |
| 3-Digit Packages | 305,021,810 18.56% | 48,300,586 2.94% | 353,322,396 21.50% |
| 5-Digit Packages | 454,998,190 27.69% | 374,498,414 22.79% | 829,496,604 50.48% |
| Total | 818,620,000 49.82% | 824,657,000 50.18% | 1,643,277,000 100.00% |

| | (8) | (9) | (10) |
|-----------|-----------------------|-----------------------|--------------------------|
| | Automation | Nonautomation | Total |
| Basic | 58,600,000 3.57% | 401,858,000 24.45% | 460,458,000 28.02% |
| 3/5-Digit | 760,020,000 46.25% | 422,799,000 25.73% | 1,182,819,000 71.98% |
| Total | 818,620,000 49.82% | 824,657,000 50.18% | 1,643,277,000 100.00% |

(1) From Column (5).

(2) Equals Column (6) weighted by the proportion of Nonautomation pieces that are Machinable.

(3) Equals Column (6) weighted by the proportion of Nonautomation pieces that are Nonmachinable.

(4) Equals the sum of Columns (1) through (3).

(5) From Flats Volumes.

(6) From Flats Volumes.

(7) Equals Column (5) plus Column (6).

(8) From Column (5). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (5).

(9) From Column (6). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (6).

(10) Equals Column (8) plus Column (9).

EXHIBIT F: PERIODICALS REGULAR RATE FLATS, CONSTANT MAIL ENTRY

This exhibit reproduces the results from LR-H-134, Section 8,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Alternate Weighted Model Costs

Page 6 Model Costs

Page 7 Volumes

MAIL PROCESSING COST ESTIMATES

Periodicals Regular Rate Flats, Constant Mail Entry

| | (1) Mailflow Processing Cost | (2) CRA Adjustment Factor | (3) Fixed CRA Costs, Add- On | (4) Total Volume Variable Cost |
|--------------------------------|---------------------------------------|------------------------------------|---------------------------------------|--|
| Automation, Basic Presort | 10.5098 | 1.2687 | 2.8700 | 16.2040 |
| Automation, 3-Digit Presort | 7.8007 | 1.2687 | 2.8700 | 12.7670 |
| Automation, 5-Digit Presort | 4.7268 | 1.2687 | 2.8700 | 8.8670 |
| Nonautomation, Basic Presort | 13.9123 | 1.2687 | 2.8700 | 20.5209 |
| Nonautomation, 3-Digit Presort | 9.1005 | 1.2687 | 2.8700 | 14.4160 |
| Nonautomation, 5-Digit Presort | 5.9346 | 1.2687 | 2.8700 | 10.3994 |
| Carrier Route | 1.6372 | 1.2687 | 2.8700 | 4.9472 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTORS

Periodicals Regular Rate Flats, Constant Mail Entry

| | | |
|------------------------------------|--------|-----|
| Proportional CRA Adjustment Factor | 1.2687 | (1) |
| Fixed CRA Costs | 2.8700 | (2) |

(1) *From USPS LR-H-134 Section 2, page 4*

(2) *From USPS LR-H-134 Section 2, page 4*

WEIGHTED MODEL COSTS

Periodicals Regular Rate Flats, Constant Mail Entry

| | (1) Total Modeled Cost | (2) Weight | (3) Weighted Cost |
|---------------------------------------|---------------------------------|---------------|----------------------|
| Nonautomation, Basic Presort | | | |
| <i>Nonmachinable, Basic Presort</i> | 15.8822 | 25.00% | 3.9706 |
| <i>Machinable, Basic Presort</i> | 13.2557 | 75.00% | 9.9418 |
| | | | 13.9123 |
| Nonautomation, 3-Digit Presort | | | |
| <i>Nonmachinable, 3-Digit Presort</i> | 10.5044 | 25.00% | 2.6261 |
| <i>Machinable, 3-Digit Presort</i> | 8.6325 | 75.00% | 6.4744 |
| | | | 9.1005 |
| Nonautomation, 5-Digit Presort | | | |
| <i>Nonmachinable, 5-Digit Presort</i> | 6.3889 | 25.00% | 1.5972 |
| <i>Machinable, 5-Digit Presort</i> | 5.7832 | 75.00% | 4.3374 |
| | | | 5.9346 |
| Automation, Basic Presort | 10.5098 | 100.00% | 10.5098 |
| Automation, 3-Digit Presort | 7.8007 | 100.00% | 7.8007 |
| Automation, 5-Digit Presort | 4.7268 | 100.00% | 4.7268 |
| Carrier Route | 1.6372 | 100.00% | 1.6372 |

- (1) From page 5
- (2) Column (2) equals a ratio of the specific volume to the total volume of the presort category
Volumes from page 7
- (3) Equals Column (1) multiplied by Column (2)

ALTERNATE WEIGHTED MODEL COSTS

Periodicals Regular Rate Flats, Constant Mail Entry

| | Unit Modeled Cost | Bundle Sort Cost | Weight | Weighted Modeled Cost | Weighted Bundle Sort Cost | Total Cost |
|---------------------------------------|-------------------------|---------------------|----------------|-----------------------------|---------------------------------|----------------|
| Nonautomation, Basic Presort | | | | 11.8267 | 2.0856 | 13.9123 |
| <i>Nonmachinable, Basic Presort</i> | 13.7967 | 2.0856 | 25.00% | 3.4492 | 0.5214 | |
| <i>Machinable, Basic Presort</i> | 11.1701 | 2.0856 | 75.00% | 8.3776 | 1.5642 | |
| Nonautomation, 3-Digit Presort | | | | 7.8753 | 1.2252 | 9.1005 |
| <i>Nonmachinable, 3-Digit Presort</i> | 9.2793 | 1.2252 | 25.00% | 2.3198 | 0.3063 | |
| <i>Machinable, 3-Digit Presort</i> | 7.4073 | 1.2252 | 75.00% | 5.5555 | 0.9189 | |
| Nonautomation, 5-Digit Presort | | | | 4.9516 | 0.9831 | 5.9346 |
| <i>Nonmachinable, 5-Digit Presort</i> | 5.4059 | 0.9831 | 25.00% | 1.3515 | 0.2458 | |
| <i>Machinable, 5-Digit Presort</i> | 4.8001 | 0.9831 | 75.00% | 3.6001 | 0.7373 | |
| Automation, Basic Presort | 8.4242 | 2.0856 | 100.00% | 8.4242 | 2.0856 | 10.5098 |
| Automation, 3-Digit Presort | 6.5755 | 1.2252 | 100.00% | 6.5755 | 1.2252 | 7.8007 |
| Automation, 5-Digit Presort | 3.7437 | 0.9831 | 100.00% | 3.7437 | 0.9831 | 4.7268 |
| Carrier Route | 1.6372 | | 100.00% | 1.6372 | | 1.6372 |

MODEL COSTS

Periodicals Regular Rate Flats, Constant Mail Entry

| | (1) | (2) | (3) |
|--|-------------------------|---------------------|-----------------------|
| | Unit Modeled Cost | Bundle Sort Cost | Total Modeled Cost |
| Basic Presort Rate Category | | | |
| Nonmachinable | 13.7967 | 2.0856 | 15.8822 |
| Machinable | 11.1701 | 2.0856 | 13.2557 |
| Barcoded | 8.4242 | 2.0856 | 10.5098 |
| Three-Digit Presort Rate Category | | | |
| Nonmachinable | 9.2793 | 1.2252 | 10.5044 |
| Machinable | 7.4073 | 1.2252 | 8.6325 |
| Barcoded | 6.5755 | 1.2252 | 7.8007 |
| Five-Digit Presort Rate Category | | | |
| Nonmachinable | 5.4059 | 0.9831 | 6.3889 |
| Machinable | 4.8001 | 0.9831 | 5.7832 |
| Barcoded | 3.7437 | 0.9831 | 4.7268 |
| Carrier Route Presort Rate Category | 1.6372 | - | 1.6372 |

(1) From Flow Model summary sheets

(2) From Bundle Sorting Model

(3) Equals Column (1) plus Column (2)

VOLUMES

Periodicals Regular Rate Flats, Constant Mail Entry

| | (1) Barcoded | (2) Machinable | (3) Nonmachinable | (4) Carrier Route | (5) Total |
|---------------|-------------------------|-------------------------|----------------------|-------------------------|--------------------------|
| Basic | 359,139,092 5.51% | 661,009,956 10.14% | 220,336,652 3.38% | - | 1,240,485,700 19.04% |
| 3-Digit | 342,669,589 5.26% | 306,067,634 4.70% | 102,022,545 1.57% | - | 750,759,768 11.52% |
| 5-Digit | 1,012,091,994 15.53% | 791,115,553 12.14% | 263,705,184 4.05% | - | 2,066,912,731 31.72% |
| Carrier Route | | | | 2,458,556,802 37.73% | 2,458,556,802 37.73% |
| Total | 1,713,900,675 26.30% | 1,758,193,142 26.98% | 586,064,381 8.99% | 2,458,556,802 37.73% | 6,516,715,000 100.00% |

| | (6) Barcoded Flats | (7) Non-Barcoded Flats | (8) Carrier Route | (9) Total |
|-----------------|-------------------------|------------------------------|-------------------------|--------------------------|
| Basic Presort | 359,139,092 5.51% | 881,346,608 13.52% | - | 1,240,485,700 19.04% |
| 3-Digit Presort | 342,669,589 5.26% | 408,090,178 6.26% | - | 750,759,768 11.52% |
| 5-Digit Presort | 1,012,091,994 15.53% | 1,054,820,737 16.19% | - | 2,066,912,731 31.72% |
| Carrier Route | | | 2,458,556,802 37.73% | 2,458,556,802 37.73% |
| Total | 1,713,900,675 26.30% | 2,344,257,523 35.97% | 2,458,556,802 37.73% | 6,516,715,000 100.00% |

- (1) From Column (6)
 (2) 75% of Column (7); (75% of Non-Barcoded mail is machinable; Refer to USPS LR-H-105)
 (3) 25% of Column (7); (25% of Non-Barcoded mail is nonmachinable; Refer to USPS LR-H-105)
 (4) From Column (8)
 (5) Sum of Columns (1) through (4)
 (6) From Flats Volumes
 (7) From Flats Volumes
 (8) From Flats Volumes
 (9) Sum of Columns (6) through (8)

EXHIBIT G: PERIODICALS NONPROFIT FLATS, CONSTANT MAIL ENTRY

This exhibit reproduces the results from LR-H-134, Section 9,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Alternate Weighted Costs

Page 6 Model Costs

Page 7 Volumes

MAIL PROCESSING COST ESTIMATES**Periodicals Nonprofit Flats, Constant Mail Entry**

| | (1) | (2) | (3) | (4) |
|--------------------------------|--------------------------------|-----------------------------|--------------------------------|-------------------------------|
| | Mailflow Processing Cost | CRA Adjustment Factor | Fixed CRA Costs, Add- On | Total Volume Variable Cost |
| Automation, Basic Presort | 10.2613 | 0.8268 | 1.5982 | 10.0825 |
| Automation, 3-Digit Presort | 6.3035 | 0.8268 | 1.5982 | 6.8101 |
| Automation, 5-Digit Presort | 4.3520 | 0.8268 | 1.5982 | 5.1965 |
| Nonautomation, Basic Presort | 14.6456 | 0.8268 | 1.5982 | 13.7075 |
| Nonautomation, 3-Digit Presort | 7.4979 | 0.8268 | 1.5982 | 7.7976 |
| Nonautomation, 5-Digit Presort | 5.8177 | 0.8268 | 1.5982 | 6.4084 |
| Carrier Route | 1.4575 | 0.8268 | 1.5982 | 2.8033 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTORS

Periodicals Nonprofit Flats, Constant Mail Entry

| | | |
|------------------------------------|--------|-----|
| Proportional CRA Adjustment Factor | 0.8268 | (1) |
| Fixed CRA Costs | 1.5982 | (2) |

- (1) *From USPS LR-H-134 Section 3, page 4*
(2) *From USPS LR-H-134 Section 3, page 4*

WEIGHTED MODEL COSTS

Periodicals Nonprofit Flats, Constant Mail Entry

| | (1) Total Modeled Cost | (2) Weight | (3) Weighted Cost |
|---------------------------------------|---------------------------------|---------------|----------------------|
| Nonautomation, Basic Presort | | | |
| <i>Nonmachinable, Basic Presort</i> | 15.4940 | 67.00% | 10.3810 |
| <i>Machinable, Basic Presort</i> | 12.9231 | 33.00% | 4.2646 |
| | | | 14.6456 |
| Nonautomation, 3-Digit Presort | | | |
| <i>Nonmachinable, 3-Digit Presort</i> | 8.2672 | 67.00% | 5.5390 |
| <i>Machinable, 3-Digit Presort</i> | 5.9359 | 33.00% | 1.9589 |
| | | | 7.4979 |
| Nonautomation, 5-Digit Presort | | | |
| <i>Nonmachinable, 5-Digit Presort</i> | 6.0179 | 67.00% | 4.0320 |
| <i>Machinable, 5-Digit Presort</i> | 5.4111 | 33.00% | 1.7857 |
| | | | 5.8177 |
| Automation, Basic Presort | 10.2613 | 100.00% | 10.2613 |
| Automation, 3-Digit Presort | 6.3035 | 100.00% | 6.3035 |
| Automation, 5-Digit Presort | 4.3520 | 100.00% | 4.3520 |
| Carrier Route | 1.4575 | 100.00% | 1.4575 |

- (1) From page 5
- (2) Column (2) equals a ratio of the specific volume to the total volume of the presort category
Volumes from page 7
- (3) Equals Column (1) multiplied by Column (2)

ALTERNATE WEIGHTED MODEL COSTS

Periodicals Nonprofit Flats, Constant Mail Entry

| | Unit Modeled Cost | Bundle Sort Cost | Weight | Weighted Modeled Cost | Weighted Bundle Sort Cost | Total Cost |
|---------------------------------------|-------------------------|---------------------|---------|-----------------------------|---------------------------------|----------------|
| Nonautomation, Basic Presort | | | | 12.5930 | 2.0526 | 14.6456 |
| <i>Nonmachinable, Basic Presort</i> | 13.4414 | 2.0526 | 67.00% | 9.0057 | 1.3752 | |
| <i>Machinable, Basic Presort</i> | 10.8705 | 2.0526 | 33.00% | 3.5873 | 0.6774 | |
| Nonautomation, 3-Digit Presort | | | | 6.3233 | 1.1745 | 7.4979 |
| <i>Nonmachinable, 3-Digit Presort</i> | 7.0926 | 1.1745 | 67.00% | 4.7521 | 0.7869 | |
| <i>Machinable, 3-Digit Presort</i> | 4.7614 | 1.1745 | 33.00% | 1.5713 | 0.3876 | |
| Nonautomation, 5-Digit Presort | | | | 5.2194 | 0.5983 | 5.8177 |
| <i>Nonmachinable, 5-Digit Presort</i> | 5.4196 | 0.5983 | 67.00% | 3.6311 | 0.4008 | |
| <i>Machinable, 5-Digit Presort</i> | 4.8128 | 0.5983 | 33.00% | 1.5882 | 0.1974 | |
| Automation, Basic Presort | 8.2087 | 2.0526 | 100.00% | 8.2087 | 2.0526 | 10.2613 |
| Automation, 3-Digit Presort | 5.1290 | 1.1745 | 100.00% | 5.1290 | 1.1745 | 6.3035 |
| Automation, 5-Digit Presort | 3.7537 | 0.5983 | 100.00% | 3.7537 | 0.5983 | 4.3520 |
| Carrier Route | 1.4575 | | 100.00% | 1.4575 | | 1.4575 |

MODEL COSTS

Periodicals Nonprofit Flats, Constant Mail Entry

| | (1) Unit Modeled Cost | (2) Bundle Sort Cost | (3) Total Modeled Cost |
|--|--------------------------------|----------------------------|---------------------------------|
| Basic Presort Rate Category | | | |
| Nonmachinable | 13.4414 | 2.0526 | 15.4940 |
| Machinable | 10.8705 | 2.0526 | 12.9231 |
| Barcoded | 8.2087 | 2.0526 | 10.2613 |
| Three-Digit Presort Rate Category | | | |
| Nonmachinable | 7.0926 | 1.1745 | 8.2672 |
| Machinable | 4.7614 | 1.1745 | 5.9359 |
| Barcoded | 5.1290 | 1.1745 | 6.3035 |
| Five-Digit Presort Rate Category | | | |
| Nonmachinable | 5.4196 | 0.5983 | 6.0179 |
| Machinable | 4.8128 | 0.5983 | 5.4111 |
| Barcoded | 3.7537 | 0.5983 | 4.3520 |
| Carrier Route Presort Rate Category | 1.4575 | - | 1.4575 |

1) From Flow Model summary sheets

2) From Bundle Sorting Model

3) Equals Column (1) plus Column (2)

VOLUMES

Periodicals Nonprofit Flats, Constant Mail Entry

| | (1) | (2) | (3) | (4) |
|-----------------|-----------------------|-----------------------|-----------------------|-------------------------|
| | Barcoded Flats | Non-Barcoded Flats | Carrier Route | Total |
| Basic Presort | 82,354,370 4.15% | 223,305,689 11.24% | | 305,660,059 15.39% |
| 3-Digit Presort | 67,491,446 3.40% | 87,834,084 4.42% | | 155,325,531 7.82% |
| 5-Digit Presort | 274,343,646 13.81% | 267,665,874 13.47% | | 542,009,520 27.28% |
| Carrier Route | | | 983,732,891 49.52% | 983,732,891 49.52% |
| Total | 424,189,462 21.35% | 578,805,647 29.13% | 983,732,891 49.52% | 1,986,728,000 50.48% |

| | (5) | (6) | (7) | (8) | (9) |
|---------------|-----------------------|----------------------|-----------------------|-----------------------|--------------------------|
| | Barcoded | Machinable | Non-Machinable | Carrier Route | Total |
| Basic | 82,354,370 26.94% | 73,690,877 24.11% | 149,614,812 48.95% | | 305,660,059 100.00% |
| 3-Digit | 67,491,446 43.45% | 28,985,248 18.66% | 58,848,836 37.89% | | 155,325,531 100.00% |
| 5-Digit | 274,343,646 50.62% | 88,329,738 16.30% | 179,336,135 33.09% | | 542,009,520 100.00% |
| Carrier Route | | | | 983,732,891 49.52% | 983,732,890.94 49.52% |
| Total | 424,189,462 | 191,005,863 | 387,799,763 | 983,732,891 | 1,986,728,000 |

(1) From Flats Volumes

(2) From Flats Volumes

(3) From Flats Volumes

(4) Sum of Columns (1) through (3)

(5) From Column (1)

(6) 33% of Column (2); (33% of Periodicals Non-Barcoded mail is machinable; Refer to USPS LR-H-105)

(7) 67% of Column (2); (67% of Periodicals Non-Barcoded mail is nonmachinable; Refer to USPS LR-H-105)

(8) From Column (3)

(9) Sum of Columns (1) through (4)

EXHIBIT H: STANDARD MAIL (A) REGULAR RATE FLATS, CONSTANT MAIL ENTRY

This exhibit reproduces the results from LR-H-134, Section 10, which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Alternate Weighted Model Costs

Page 6 Model Costs

Page 7 Volumes

MAIL PROCESSING COST ESTIMATES**Standard Mail (A) Regular Rate Flats, Constant Mail Entry**

| | (1) | (2) | (3) | (4) |
|---|--------------------------------|-----------------------------|-------------------------------|-------------------------------|
| | Mailflow Processing Cost | CRA Adjustment Factor | Fixed CRA Costs, Add on | Total Volume Variable Cost |
| Nonautomation, Basic Presort | 14.1727 | 1.2288 | 1.7408 | 19.1565 |
| The complete model is provided in Section 10. | 7.7118 | 1.2288 | 1.7408 | 11.2172 |
| Automation, Basic Presort | 10.1557 | 1.2288 | 1.7408 | 14.2202 |
| Automation, 3/5-Digit Presort | 5.6360 | 1.2288 | 1.7408 | 8.6665 |

(1) From page 4

(2) From page 3

(3) From page 3

(4) Equals Column (1) multiplied by Column (2) plus Column (3)

CRA ADJUSTMENT FACTORS

Standard Mail (A) Regular Rate Flats, Constant Mail Entry

| | | |
|------------------------------------|--------|-----|
| Proportional CRA Adjustment Factor | 1.2288 | (1) |
| Fixed CRA Costs | 1.7408 | (2) |

(1) From USPS LR-H-134 Section 4, page 4

(2) From USPS LR-H-134 Section 4, page 4

WEIGHTED MODEL COSTS**Standard Mail (A) Regular Rate Flats, Constant Mail Entry**

| | (1) Total Cost | (2) Weight | (3) Weighted Cost |
|---|-------------------|---------------|-------------------------|
| Nonautomation, Basic Presort | | | 14.1727 |
| Nonmachinable, Basic Presort | 14.9486 | 63.54% | 9.4976 |
| Machinable, Basic Presort | 12.8209 | 36.46% | 4.6751 |
| Nonautomation, 3/5-Digit Presort | | | 7.7118 |
| Nonmachinable, 3-Digit Presort | 13.2323 | 49.54% | 6.5558 |
| Machinable, 3-Digit Presort | 10.9338 | 50.46% | 5.5168 |
| Nonautomation, 3-Digit Presort | | | 12.0726 |
| Nonmachinable, 5-Digit Presort | 6.4965 | 42.48% | 2.7597 |
| Machinable, 5-Digit Presort | 5.5109 | 57.52% | 3.1698 |
| Nonautomation, 5-Digit Presort | | | 5.9295 |
| Automation, Basic Presort | 10.1557 | 100.00% | 10.1557 |
| Automation, 3/5-Digit Presort | | | 5.6360 |
| 3-Digit Presort | 8.7562 | 26.39% | 2.3108 |
| 5-Digit Presort | 4.5174 | 73.61% | 3.3252 |

(1) From page 6

(2) From page 7

(3) Equals Column (1) multiplied by Column (2)

ALTERNATE WEIGHTED MODEL COSTS

Standard Mail (A) Regular Rate Flats, Constant Mail Entry

| | Unit Modeled Cost | Bundle Sort Cost | Weight | Weighted Unit Modeled Cost | Weighted Bundle Sort Cost | Total Cost |
|---|----------------------|---------------------|----------------|-------------------------------|---------------------------------|----------------|
| Nonautomation, Basic Presort | | | | 12.4607 | 1.7121 | 14.1727 |
| Nonmachinable, Basic Presort | 13.2528 | 1.6958 | 63.54% | 8.4202 | 1.0774 | |
| Machinable, Basic Presort | 11.0805 | 1.7405 | 36.46% | 4.0405 | 0.6347 | |
| Nonautomation, 3/5-Digit Presort | | | | 6.7872 | 0.9246 | 7.7118 |
| Nonmachinable, 3-Digit Presort | 12.2333 | 0.9990 | 49.54% | 6.0609 | 0.4949 | |
| Machinable, 3-Digit Presort | 10.0689 | 0.8649 | 50.46% | 5.0804 | 0.4364 | |
| Nonautomation, 3-Digit Presort | | | | 11.1412 | 0.9313 | |
| Nonmachinable, 5-Digit Presort | 5.4975 | 0.9990 | 42.48% | 2.3353 | 0.4244 | |
| Machinable, 5-Digit Presort | 4.6459 | 0.8649 | 57.52% | 2.6723 | 0.4975 | |
| Nonautomation, 5-Digit Presort | | | | 5.0077 | 0.9219 | |
| Automation, Basic Presort | 8.4152 | 1.7405 | 100.00% | 8.4152 | 1.7405 | 10.1557 |
| Automation, 3/5-Digit Presort | | | | 4.7711 | 0.8649 | 5.6360 |
| 3-Digit Presort | 7.8913 | 0.8649 | 26.39% | 2.0825 | 0.2283 | |
| 5-Digit Presort | 3.6525 | 0.8649 | 73.61% | 2.6886 | 0.6367 | |

MODEL COSTS

Standard Mail (A) Regular Rate Flats, Constant Mail Entry

| | (1) | (2) | (3) |
|------------------------------------|----------------------|---------------------|-----------------------|
| | Unit Modeled Cost | Bundle Sort Cost | Total Modeled Cost |
| | 8.4152 | 1.7405 | 10.1557 |
| <i>Automation, 3-Digit Presort</i> | 7.8913 | 0.8649 | 8.7562 |
| <i>Automation, 5-Digit Presort</i> | 3.6525 | 0.8649 | 4.5174 |
| Nonautomation, Basic Presort | | | |
| Nonmachinable | 13.2528 | 1.6958 | 14.9486 |
| Machinable | 11.0805 | 1.7405 | 12.8209 |
| Nonautomation, 3-Digit Presort | | | |
| Nonmachinable | 12.2333 | 0.9990 | 13.2323 |
| Machinable | 10.0689 | 0.8649 | 10.9338 |
| Nonautomation, 5-Digit Presort | | | |
| Nonmachinable | 5.4975 | 0.9990 | 6.4965 |
| Machinable | 4.6459 | 0.8649 | 5.5109 |

(1) *From Flow Model summary sheets*

(2) *From Bundle Sorting Model*

(3) *Equals Unit Modeled Cost plus Bundle Sort Cost*

VOLUMES

Standard Mail (A) Regular Rate Flats, Constant Mail Entry

| | (1) | (2) | (3) | (4) |
|--------------------------------|---------------|---------------|---------------|----------------|
| | Automation | Machinable | Nonmachinable | Total |
| Basic | 231,300,000 | 382,252,307 | 666,020,693 | 1,279,573,000 |
| The complete model is provided | 1.87% | 3.09% | 5.39% | 10.36% |
| 3-Digit Packages | 2,830,255,635 | 260,030,884 | 255,331,079 | 3,345,617,598 |
| | 22.91% | 2.10% | 2.07% | 27.08% |
| 5-Digit Packages | 6,469,124,365 | 725,293,295 | 535,648,742 | 7,730,066,402 |
| | 52.36% | 5.87% | 4.34% | 62.56% |
| Total | 9,530,680,000 | 1,367,576,486 | 1,457,000,514 | 12,355,257,000 |
| | 77.14% | 11.07% | 11.79% | 100.00% |

| | (5) | (6) | (7) |
|------------------|---------------|---------------|----------------|
| | Automation | Nonautomation | Total |
| Basic Presort | 231,300,000 | 1,048,273,000 | 1,279,573,000 |
| | 1.87% | 8.48% | 10.36% |
| 3/5 Presort | | | |
| 3-Digit Packages | 2,830,255,635 | 515,361,963 | 3,345,617,598 |
| | 22.91% | 4.17% | 27.08% |
| 5-Digit Packages | 6,469,124,365 | 1,260,942,037 | 7,730,066,402 |
| | 52.36% | 10.21% | 62.56% |
| Total | 9,530,680,000 | 2,824,577,000 | 12,355,257,000 |
| | 77.14% | 22.86% | 100.00% |

| | (8) | (9) | (10) |
|-------------------|---------------|---------------|----------------|
| | Automation | Nonautomation | Total |
| Basic Presort | 231,300,000 | 1,048,273,000 | 1,279,573,000 |
| | 1.87% | 8.48% | 10.36% |
| 3/5-Digit Presort | 9,299,380,000 | 1,776,304,000 | 11,075,684,000 |
| | 76.27% | 14.38% | 89.64% |
| Total | 9,530,680,000 | 2,824,577,000 | 12,355,257,000 |
| | 77.14% | 22.86% | 100.00% |

- (1) From Column (5).
 (2) Equals Column (6) weighted by the proportion of Nonautomation pieces that are machinable.
 (3) Equals Column (6) weighted by the proportion of Nonautomation pieces that are nonmachinable.
 (4) Equals the sum of Columns (1) through (3).
 (5) From Flats Volumes
 (6) From Flats Volumes
 (7) Equals Column (5) plus Column (6).
 (8) From Column (5). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (5).
 (9) From Column (6). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (6).
 (10) Equals Column (8) plus Column (9).

EXHIBIT I: STANDARD MAIL (A) NONPROFIT FLATS, CONSTANT MAIL ENTRY

This exhibit reproduces the results from LR-H-134, Section 11,
which provides the complete model.

Page 2 Mail Processing Cost Estimates

Page 3 CRA Adjustment Factor

Page 4 Weighted Model Costs

Page 5 Alternate Weighted Model Costs

Page 6 Model Costs

Page 7 Volumes

STANDARD MAIL (A) NONPROFIT FLATS, CONSTANT MAIL ENTRY

| | (1) Mailflow Processing Cost | (2) CRA Adjustment Factor | (3) Fixed CRA Costs, Add on | (4) Total Volume Variable Cost |
|----------------------------------|---------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| Nonautomation, Basic Presort | 14.71 | 1.1341 | 1.9769 | 18.6549 |
| Nonautomation, 3/5-Digit Presort | 6.24 | 1.1341 | 1.9769 | 9.0584 |
| Automation, Basic Presort | 10.53 | 1.1341 | 1.9769 | 13.9147 |
| Automation, 3/5-Digit Presort | 4.77 | 1.1341 | 1.9769 | 7.3914 |

(1) *From page 4*(2) *From page 3*(3) *From page 3*(4) *Equals Column (1) multiplied by Column (2) plus Column (3)*

CRA ADJUSTMENT FACTORS

Standard Mail (A) Nonprofit Flats, Constant Mail Entry

| | | |
|------------------------------------|--------|-----|
| Proportional CRA Adjustment Factor | 1.1341 | (1) |
| Fixed CRA Costs | 1.9769 | (2) |

(1) From USPS LR-H-134, Section 5, page 4

(2) From USPS LR-H-134, Section 5, page 4

WEIGHTED MODEL COSTS**Standard Mail (A) Nonprofit Flats, Constant Mail Entry**

| | (1) | (2) | (3) |
|---|------------|---------|----------------|
| | Total Cost | Weight | Weighted Cost |
| Nonautomation, Basic Presort | | | 14.7058 |
| Nonmachinable, Basic Presort | 21.7917 | 16.24% | 3.5383 |
| Machinable, Basic Presort | 13.3323 | 83.76% | 11.1675 |
| Nonautomation, 3/5-Digit Presort | | | 6.2441 |
| Nonmachinable, 3-Digit Presort | 13.2723 | 25.42% | 3.3744 |
| Machinable, 3-Digit Presort | 10.8681 | 74.58% | 8.1049 |
| Nonautomation, 3-Digit Presort | | | 11.479327 |
| Nonmachinable, 5-Digit Presort | 6.5487 | 7.92% | 0.5189 |
| Machinable, 5-Digit Presort | 5.4846 | 92.08% | 5.0500 |
| Nonautomation, 5-Digit Presort | | | 5.568893 |
| Automation, Basic Presort | 10.5261 | 100.00% | 10.5261 |
| Automation, 3/5-Digit Presort | | | 4.7743 |
| 3-Digit Presort | 8.5447 | 9.46% | 0.8082 |
| 5-Digit Presort | 4.3804 | 90.54% | 3.9661 |

(1) From page 6

(2) From page 7

(3) Equals Column (1) multiplied by Column (2)

ALTERNATE WEIGHTED MODEL COSTS

Standard Mail (A) Nonprofit Flats, Constant Mail Entry

| | Unit Modeled Cost | Bundle Sort Cost | Weight | Weighted Unit Modeled Cost | Weighted Bundle Sort Cost | Total Cost |
|---|----------------------|---------------------|----------------|-------------------------------|---------------------------------|----------------|
| Nonautomation, Basic Presort | | | | 12.3659 | 2.3399 | 14.7058 |
| Nonmachinable, Basic Presort | 19.2359 | 2.5559 | 16.24% | 3.1233 | 0.4150 | |
| Machinable, Basic Presort | 11.0342 | 2.2981 | 83.76% | 9.2426 | 1.9249 | |
| Nonautomation, 3/5-Digit Presort | | | | 5.4579 | 0.7862 | 6.2441 |
| Nonmachinable, 3-Digit Presort | 12.3429 | 0.9295 | 25.42% | 3.1381 | 0.2363 | |
| Machinable, 3-Digit Presort | 10.0976 | 0.7704 | 74.58% | 7.5303 | 0.5746 | |
| Nonautomation, 3-Digit Presort | | | | 10.6685 | 0.8109 | |
| Nonmachinable, 5-Digit Presort | 5.6193 | 0.9295 | 7.92% | 0.4452 | 0.0736 | |
| Machinable, 5-Digit Presort | 4.7141 | 0.7704 | 92.08% | 4.3406 | 0.7094 | |
| Nonautomation, 5-Digit Presort | | | | 4.7858 | 0.7830 | |
| Automation, Basic Presort | 8.2281 | 2.2981 | 100.00% | 8.2281 | 2.2981 | 10.5261 |
| Automation, 3/5-Digit Presort | | | | 4.0038 | 0.7704 | 4.7743 |
| 3-Digit Presort | 7.7743 | 0.7704 | 9.46% | 0.7353 | 0.0729 | |
| 5-Digit Presort | 3.6100 | 0.7704 | 90.54% | 3.2685 | 0.6976 | |

MODEL COSTS

Standard Mail (A) Nonprofit Flats, Constant Mail Entry

| | (1) | (2) | (3) |
|--------------------------------|----------------------|---------------------|-----------------------|
| | Unit Modeled Cost | Bundle Sort Cost | Total Modeled Cost |
| Automation, Basic Presort | 8.2281 | 2.2981 | 10.5261 |
| Automation, 3-Digit Presort | 7.7743 | 0.7704 | 8.5447 |
| Automation, 5-Digit Presort | 3.6100 | 0.7704 | 4.3804 |
| Nonautomation, Basic Presort | | | |
| Machinable | 11.0342 | 2.2981 | 13.3323 |
| Nonmachinable | 19.2359 | 2.5559 | 21.7917 |
| Nonautomation, 3-Digit Presort | | | |
| Machinable | 10.0976 | 0.7704 | 10.8681 |
| Nonmachinable | 12.3429 | 0.9295 | 13.2723 |
| Nonautomation, 5-Digit Presort | | | |
| Machinable | 4.7141 | 0.7704 | 5.4846 |
| Nonmachinable | 5.6193 | 0.9295 | 6.5487 |

- (1) From flow model summary sheets
(2) From the Bundle Sorting model
(3) Equals Column (1) plus Column (2)

VOLUMES

Standard Mail (A) Nonprofit Flats, Constant Mail Entry

| | (1) | (2) | (3) | (4) |
|------------------|-----------------------|-----------------------|----------------------|------------------------|
| | Automation | Machinable | Nonmachinable | Total |
| Basic | 58,600,000 12.73% | 336,609,362 73.10% | 65,248,638 14.17% | 460,458,000 100.00% |
| 3/5 Presort | | | | |
| 3-Digit Packages | 305,021,810 86.33% | 36,020,446 10.19% | 12,280,140 3.48% | 353,322,396 100.00% |
| 5-Digit Packages | 454,998,190 54.85% | 344,826,422 41.57% | 29,671,992 3.58% | 829,496,604 100.00% |
| Total | 818,620,000 | 717,456,229 | 107,200,771 | 1,643,277,000 |

| | (5) | (6) | (7) |
|------------------|-----------------------|-----------------------|--------------------------|
| | Automation | Nonautomation | Total |
| Basic | 58,600,000 3.57% | 401,858,000 24.45% | 460,458,000 28.02% |
| 3/5 Presort | | | |
| 3-Digit Packages | 305,021,810 18.56% | 48,300,586 2.94% | 353,322,396 21.50% |
| 5-Digit Packages | 454,998,190 27.69% | 374,498,414 22.79% | 829,496,604 50.48% |
| Total | 818,620,000 49.82% | 824,657,000 50.18% | 1,643,277,000 100.00% |

| | (8) | (9) | (10) |
|-----------|-----------------------|-----------------------|--------------------------|
| | Automation | Nonautomation | Total |
| Basic | 58,600,000 3.57% | 401,858,000 24.45% | 460,458,000 28.02% |
| 3/5-Digit | 760,020,000 46.25% | 422,799,000 25.73% | 1,182,819,000 71.98% |
| Total | 818,620,000 49.82% | 824,657,000 50.18% | 1,643,277,000 100.00% |

(1) From Column (5).

(2) Equals Column (6) weighted by the proportion of Nonautomation pieces that are Machinable.

(3) Equals Column (6) weighted by the proportion of Nonautomation pieces that are Nonmachinable.

(4) Equals the sum of Columns (1) through (3).

(5) From Flats Volumes

(6) From Flats Volumes

(7) Equals Column (5) plus Column (6).

(8) From Column (5). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (5).

(9) From Column (6). 3/5-Digit Presort is the sum of 3-Digit Presort Packages and 5-Digit Presort Packages from Column (6).

(10) Equals Column (8) plus Column (9).

EXHIBIT J: PRESORT COMPOSITION

1 Permissible containers for presort preparation are pallets and trays for First-Class,
2 and pallets and sacks for Periodicals and Standard Mail (A). The bundles must be
3 sorted to at least the container presort level. For example, basic bundles can be
4 placed only in basic containers, while 3-digit bundles can be placed in basic or 3-digit
5 containers. Neither basic nor 3-digit bundles can be placed in 5-digit containers.
6 Tables A-1, A-2, and A-3 delineate the allowable presort combinations for the rate
7 categories within each class of mail.

TABLE A-1
SUMMARY OF ALLOWABLE MAIL PRESORT COMPOSITION OF
FIRST-CLASS FLATS MAIL

| | | | Applicable Rates | |
|---|-------------------------|-----------------------|------------------|-----------|
| | Container Presort Level | Package Presort Level | In Trays | On Pallet |
| Automation | Basic | Mixed ADC | B | B |
| | | ADC | B | B |
| | | 3-digit | 3/5 | 3/5 |
| | | 5-digit | 3/5 | 3/5 |
| | 3/5-Digit | 3-digit | 3/5 | 3/5 |
| | | 5-digit | 3/5 | 3/5 |
| Nonautomation | Basic | Mixed ADC | P | P |
| | | ADC | P | P |
| | | 3-digit | P | P |
| | | 5-digit | P | P |
| B = basic rate = P = presort rate, 3/5 = 3/5-digit presort rate | | | | |

TABLE A-2
SUMMARY OF ALLOWABLE MAIL PRESORT COMPOSITION OF
PERIODICALS REGULAR AND NONPROFIT FLATS MAIL

| | | | Applicable Rates | |
|---|-------------------------|-----------------------|------------------|-----------|
| | Container Presort Level | Package Presort Level | In Sack | On Pallet |
| Automation | Basic | Mixed ADC | B | B |
| | | ADC | B | B |
| | | non-unique 3-digit | 3 | 3 |
| | | unique 3-digit | 3 | 3 |
| | | optional city | 3 | 3 |
| | | 5-digit | 5 | 5 |
| | 3-Digit | non-unique 3-digit | 3 | 3 |
| | | unique 3-digit | 3 | 3 |
| | | optional city | 3 | 3 |
| | | 5-digit | 5 | 5 |
| | 5-Digit | 5-digit | 5 | 5 |
| | Nonautomation | Basic | Mixed ADC | B |
| ADC | | | B | B |
| non-unique 3-digit | | | B | B |
| unique 3-digit | | | B | B |
| optional city | | | B | B |
| 5-digit | | | B | B |
| 3-Digit | | non-unique 3-digit | 3 | 3 |
| | | unique 3-digit | 3 | 3 |
| | | optional city | 3 | 3 |
| | | 5-digit | 5 | 5 |
| 5-Digit | | 5-digit | 5 | 5 |
| B = basic rate, 3 = 3-digit presort rate, 5 = 5-digit presort rate, CR = carrier route presort rate | | | | |

TABLE A-3
SUMMARY OF ALLOWABLE MAIL PRESORT COMPOSITION OF
STANDARD (A) REGULAR AND NONPROFIT FLATS MAIL

| | | | Applicable Rates | | |
|--|-------------------------|-----------------------|------------------|-----------|-----|
| | Container Presort Level | Package Presort Level | In Sack | On Pallet | |
| Automation | Basic | Mixed ADC | B | B | |
| | | ADC | B | B | |
| | | 3-digit | 3/5 | 3/5 | |
| | | 5-digit | 3/5 | 3/5 | |
| | | 3/5-Digit | 3-digit | 3/5 | 3/5 |
| | | 3/5-Digit | 5-digit | 3/5 | 3/5 |
| Nonautomation | Basic | Mixed ADC | B | B | |
| | | ADC | B | B | |
| | | 3-digit | B | B | |
| | | 5-digit | B | B | |
| | | 3/5-Digit | 3-digit | 3/5 | 3/5 |
| | | 3/5-Digit | 5-digit | 3/5 | 3/5 |
| B = basic rate, 3/5 = 3/5-digit presort rate | | | | | |