## **DOCKET NO. R2001-1**

USPS-LR-J-136

# SPECIAL SERVICES AFTER-RATES VOLUME ADJUSTMENTS

#### 1. Purpose of Library Reference

- The purpose of this library reference, sponsored by witness Nieto (USPS-
- T-26), is to present the calculation of the Special Services test year after-rates
- 4 volume adjustments used by witness Mayo in support of proposed Special
- 5 Service fees. Specifically, adjustments are made to certified mail, return
- 6 receipts, Delivery Confirmation, and Signature Confirmation volumes. These
- adjustments are also provided to witness Tolley (USPS-T-8) for inclusion in the
- 8 final test-year after rates (TYAR) volumes.
- This analysis relies upon volume forecasts presented by witness Tolley in
- 10 USPS-LR-J-125, volumes and methodology presented by witness Mayo (USPS-
- 11 T-36), and market research results presented by witness Rothschild in USPS-LR-
- 12 **J-121**.

- In addition to the written description of the calculations presented in this
- Word document, detailed supporting spreadsheets are also included in this
- 15 library reference.

#### 2. **Certified Mail and Return Receipt Volume Adjustments**

#### 2.1 2 Overview

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3 The purpose of the calculations presented in this library reference is to incorporate into the test year the volume effects arising from: the enhancement 4 to Certified Mail; the introduction of an electronic Return Receipt; the 5 6 enhancement to Return Receipt After Mailing; and the extension of Delivery Confirmation and Signature Confirmation to parcels in the First-Class Mail Letters 7 and Sealed Parcels subclass. Specifically, subclasses adjusted for incremental 8 9 volume differing from those produced in the TYAR volume forecast are Certified Mail, Return Receipt (purchased at time of mailing), and Return Receipt After 10 Mailing. New volume is estimated for electronic Return Receipts.

The adjustments made to the TYAR volume forecasts rely on the market research presented by witness Rothschild in USPS-LR-J-121. The market research presents estimates of annual volume usage for certified mail, certified mail with return receipt (purchased at the time of mailing), certified mail with return receipt (purchased after mailing), and certified mail with electronic return receipt. I adjust the market research volumes to account for market penetration, First-Class Mail parcel volume migration, and the actual price proposed for certified mail. Each of these adjustments is described in detail in the following sections.

#### 2.2 Adjustments for Penetration

#### 2 2.2.1 Description of Adjustment

This adjustment reflects the five-year period over which the market research results presented in Tables 12 and 13 of LR-J-121 are expected to be achieved, for each of two different pricing scenarios. <sup>1</sup>

#### 2.2.2 Rationale

Since market research relies upon survey respondents who, as part of the survey, become fully informed about the product/service being studied, the research creates instantaneous awareness and understanding of product features, prices, and benefits. In addition, product descriptions, while as accurate and comprehensive as possible, are still subject to some degree of interpretation on behalf of the potential user. Thus, to achieve a more realistic product awareness and adoption timeframe, the market research results need to be adjusted.

#### 2.2.3 Methodology

First, I calculated the incremental volume above the FY2000 volume under each pricing scenario by subtracting the total market research volumes from LR-J-121, Tables 12 and 13 from the FY2000 volumes. The results are presented in Table 1.

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<sup>&</sup>lt;sup>1</sup> Pricing Scenario 1 presented the following price points to survey respondents: Certified Mail = \$2.25, Return Receipt (Green Card) = \$1.50, Return Receipt After Mailing = \$3.50, eReturn Receipt = \$1.50. Pricing Scenario 2 presented the Certified Mail fee equal to \$3.00, with the other fees remaining the same.

Table 1 – Incremental Volumes After Full Penetration

Product	Pricing Scenario 1	Pricing Scenario 2
Certified Mail	125,758,353	(56,698,840)
Return Receipt (Green Card)	(85,952,063)	(128,312,001)
Return Receipt After Mailing	20,014,732	6,685,341
eReturn Receipt	100,145,119	40,778,488

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I assumed that the resulting incremental volumes require five years to 3 achieve. The percentage of volume achieved in year 5 is equal to 100 percent of 4 the incremental volumes shown above. In the first year (which is also the test 5 year), therefore, only a small portion of the incremental volumes can be 6 7 achieved. For Certified Mail and Return Receipt After Mailing, the percentage of incremental volume assumed to be achieved in the test year was 25 percent. 8 9 For eReturn Receipt, the percentage of incremental volume assumed to be achieved in the test year was 10 percent. The same percentage was assumed 10 under both pricing scenarios. For Return Receipt (Green Card), the percentage 11 12 of incremental volume assumed to be achieved in the test year was 10 percent under Pricing Scenario 1, and 40 percent under Pricing Scenario 2. 13 The difference in penetration rates for Return Receipt (Green Card) between 14 Pricing Scenario 1 and Pricing Scenario 2 is due to the increased price in the 15 combination of Certified Mail and Return Receipt under Scenario 2 that is 16 assumed to result in a greater decrease in the usage of Return Receipt (Green 17 Card). The resulting incremental volumes for Year 1 are presented in Table 2 18 below. 19

<u>Table 2 – Year 1 Incremental Volume</u>

Product	Pricing Scenario 1	Pricing Scenario 2
Certified Mail	31,439,588	(14,174,710)
Return Receipt (Green Card)	(8,578,016)	(50,811,552)
Return Receipt After Mailing	4,996,278	1,671,355
eReturn Receipt	10,014,512	4,077,849

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- The incremental volumes are then added back to the base FY2000 volumes
- 5 to obtain adjusted total volumes in Year 1. The results are presented in Table 3
- 6 below.

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Table 3 – Year 1 Total Volumes

Product	Pricing Scenario 1	Pricing Scenario 2
Certified Mail	288,609,823	242,995,554
Return Receipt (Green Card)	204,788,533	162,572,207
Return Receipt After Mailing	6,277,724	2,952,781
eReturn Receipt	10,014,512	4,077,849

2.3	Adjustments for '	Volume Migration
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- 2 2.3.1 Description of Adjustment
- 3 The Postal Service is proposing to extend Delivery Confirmation and Signature
- 4 Confirmation to parcels in the First-Class Mail Letters and Sealed Parcels
- 5 subclass. My second adjustment reflects the switch from certified mail to Delivery
- 6 Confirmation and Signature Confirmation for these parcels.

#### 7 2.3.2 Rationale

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- 8 Currently the only means of receiving delivery or signature information on First-
- 9 Class Mail Letters and Sealed Parcels is by purchasing certified mail with a
- return receipt (either at the time of mailing or after mailing). A lower-priced
- alternative is now proposed for parcels in the subclass. Thus, it is assumed that
- a percentage of Certified Mail volume on parcels in the First-Class Mail Letters
- and Sealed Parcels will migrate to either Delivery Confirmation or Signature
- 14 Confirmation once the proposal is implemented.

#### 2.3.3 Methodology

The market research results provide the estimated percentage of First-Class Mail

parcels sent as certified mail, for households and non-households. These results

are presented in Attachment G of USPS-LR-J-121. I applied these percentages

to the adjusted volumes presented in Table 3 to obtain the total potential

20 migrating volume, as shown in Table 4.

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<u>Table 4 – Total Potential Migrating Volumes</u>

Mailer Type	Pricing Scenario 1	Pricing Scenario 2
Household	35,137,583	10,081,634
Non-Household	6,520,212	3,656,584

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I then estimated household and non-household percentages for migration

- 4 in the test year to account for limited awareness, eligibility, and user
- 5 requirements that may not be met with Delivery Confirmation or Signature
- 6 Confirmation. The percentages used were 10% for households and 25% for non-
- 7 households. These percentages were then applied to the total potential migrating
- 8 volume in Table 4 to obtain estimated migration volumes, as presented in Table
- **9 5**.

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Table 5 – Estimated Certified Mail Migrated Volumes

Mailer Type	Pricing Scenario 1	Pricing Scenario 2
Household	3,513,758	1,008,163
Non-Household	1,630,053	914,146
Total	5,143,811	1,922,310

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The resulting total volumes were then subtracted from the adjusted

- Certified Mail volumes presented in Table 3. Return Receipt volumes were also
- adjusted downward while maintaining the relative percentages implicit in Table 3.
- The resulting migration adjusted volumes are presented in Table 6.

### <u>Table 6 – Year 1 Volumes After Migration</u>

Product	Pricing Scenario 1	Pricing Scenario 2
Certified Mail	283,466,041	241,073,244
Return Receipt (Green Card)	201,155,549	161,286,117
Return Receipt After Mailing	6,165,837	2,929,422
eReturn Receipt	9,836,026	4,045,589

#### 2.4 Adjustments for Proposed Certified Mail Pricing

#### 2.4.1 Description of Adjustment

The proposed Certified Mail price of \$2.30 is between the two Certified

Mail price points tested in witness Rothschild's research. The third adjustment

estimates the volume at the proposed Certified Mail price point of \$2.30 based on

the volume data provided at the \$2.25 and \$3.00 pricing scenarios. The return

receipt volumes were also interpolated along with those of certified mail to reflect

the certified mail pricing.

#### 2.4.2 Methodology

Straight-line interpolation between the volumes presented in Table 6 was used to estimate the volume at the proposed Certified Mail price. The interpolated volumes are below.

<u>Table 7 - Interpolated Volumes</u>

Product	CM Price @\$2.30
Certified Mail	280,639,855
Return Receipt (Green Card)	198,497,586
Return Receipt After Mailing	5,950,076
eReturn Receipt	9,449,997

The FY2000 volumes were then subtracted from the above volumes to obtain the final adjusted incremental volumes. These incremental volumes were then applied to the TYAR Certified Mail volume forecast (USPS-LR-J-125, Table

- 2) and TYAR volume splits for return receipts (Worksheet V-9) to obtain the total
- 2 adjusted volumes for the Test Year. These results are shown below.

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Table 8 - Final Test Year After-Rates Adjusted Volumes

Product	Final (000s)
Certified Mail	302,882
Return Receipt (Green Card)	200,757
Return Receipt After Mailing	5,887
eReturn Receipt	9,450

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I also used straight-line interpolation between the total estimated migrated

- volumes presented in Table 5 to provide witness Mayo with adjustments for
- 8 additional Delivery Confirmation and Signature Confirmation volumes. Test Year
- 9 Before Rates proportions of total Delivery Confirmation and Signature
- 10 Confirmation volumes were applied to the total migrated volume in order to split
- the volume between Delivery Confirmation and Signature Confirmation. These
- volumes are presented in Table 9.

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<u>Table 9 – Migrated Volumes to Delivery Confirmation and Signature</u>
<u>Confirmation</u>

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	Final (000s)
Total Estimated Volume Migrating to Delivery/Signature Confirmation from Certified Mail	4,929
Delivery Confirmation	4,898
Signature Confirmation	31

# USPS-LR-J-136 SUPPORTING SPREADSHEETS