## Appendix A

Glossary of Terms

Auto precharge: Auto precharge is an optional setting in DRAM read commands that eliminates the data stored in the DRAM in order to prepare for the next operation. It is a technology included on both SDRAM and DDR SDRAM.

BIOS: Basic Input / Output System. BIOS is built-in software that allows a computer to control the keyboard, display screen, disk drives, serial communications, and a number of miscellaneous functions without accessing programs from a disk.

Bus: The term bus refers to lines connecting devices in a computer, through which electrical signals are sent. A memory bus would be all of the lines that connect each memory device to the memory controller on the computer's motherboard.

Chipset / controller : The memory controller is generally part of the chipset. The memory controller is the device typically located on a motherboard of a computer, which controls communications between the CPU and the memory. The chipset also controls communications between the CPU and the other systems in the computer.

DDR SDRAM Standard: Double Data Rate SDRAM Standard. The DDR SDRAM Standard built upon many of the technologies already incorporated in the previous SDRAM Standard, and added new technologies to increase the speed and efficiency of the memory system. DDR SDRAM was developed during the mid to late 1990s at JEDEC and was adopted as a JEDEC standard in 1998. DDR SDRAM devices began ramping up in production in 1999 and in 2002 it overtook SDRAM as the predominant memory device.

DDR II SDRAM Standard: The DDR II Standard built upon many of the technologies incorporated in the previous SDRAM and DDR SDRAM Standards, and added more technologies to increase the speed and efficiency of the memory system. DDR II SDRAM was developed in the Future DRAM Task Group starting in April of 1998. DDR II devices began ramping up in production in late 2003 and are predicted to begin to replace DDR as the DRAM predominantly used in personal computers in 2004.

DRAM: Dynamic Random Access Memory. DRAM is a form of computer memory that is used in computers and other products. This form of memory is used to temporarily store digitally recorded information such that it is as available to be accessed when needed by the CPU. DRAM is "dynamic" because it needs to be refreshed every fraction of a second, otherwise the information is lost.

Dual bank design / multibank design: Dual bank design allows one bank of memory cells on a DRAM chip to be accessed while the other bank is preparing to be accessed. It is a technology included on both SDRAM and DDR SDRAM. RDRAM uses an advanced form of multibank
design with many more banks than JEDEC-compliant SDRAM or DDR SDRAM.
Dual edge clocking: Dual edge clocking means capturing data off both the rising and falling edges of the clock. This allows for twice the amount of data to be sent in each clock cycle compared to single edge clocking, where data is only sent on one edge of the clock. Dual edge clocking is a technology included on DDR SDRAM and on RDRAM.

EIA: The Electronic Industries Alliance ("EIA") is a national trade association that represents all areas of the electronics industry. EIA is affiliated with JEDEC as well as with other associations.

Externally supplied reference voltage: Externally supplied reference voltage is the baseline voltage which is used to determine if a voltage signal is positive (one) or neutral (zero). If the voltage is higher than the reference voltage then the signal would be considered a one. If lower, it would be considered a zero. The advantage to externally supplied reference voltage is that it may provide a more accurate reference point for the signals transmitted. It is a technology included on RDRAM, SDRAM, and DDR SDRAM.

IEEE: The Institute of Electrical and Electronics Engineers ("IEEE") is an organization that seeks to advance the theory and application of electrotechnology and allied sciences, serves as a catalyst for technological innovation and supports the needs of its members through a wide variety of programs and services since 1963. IEEE working groups sometimes work in conjunction with JEDEC subcommittees in developing certain standards.

JEDEC: The JEDEC Solid State Technology Association (once known as the Joint Electron Device Engineering Council), is the semiconductor engineering standardization body of the Electronic Industries Alliance (EIA). JEDEC has existed since 1960 and is the primary standard- setting organization at issue in the Rambus matter.

JC-42 Committee: The JC-42 Committee is a JEDEC committee, which focuses on Memory Devices. Jim Townsend was the chairman of this committee for the operative period.

JC-42.3 Subcommittee: The JC-42.3 Subcommittee is a JEDEC subcommittee of the JC-42 Committee, which focuses on RAM Memories. Gordon Kelley was the chairman of this subcommittee for the operative period.

Memory module: Memory module refers to the component which includes the DRAM chips and the small printed circuit board upon which the chips are placed. Memory modules are plugged directly into computers and memory upgrades to personal computers are performed by adding new memory modules to the computer.

MOST / Mosys: Mosys was a company that developed the MOST DRAM in the mid 1990s. The MOST DRAM was proposed proprietary memory solution, but it never achieved significant market penetration.

Motherboard: The motherboard is the printed circuit board upon which almost all important
components of a computer are fastened. Memory modules, CPUs, and video cards, among other components, are plugged in to the motherboards in personal computers.

Multiplexed bus: A multiplexed bus is a bus, whose lines are used for more than one function, during an operation. For example, each multiplexed bus line might carry address, command, and data information between the memory and the controller during a read or write operation.

Narrow / wide bus: A narrow bus refers to a bus that contains few lines relative to a wide bus. A traditional wide bus contains dedicated bus lines used to transmit only certain types of information. For example, there typically are dedicated lines for address, command, and data information. By contrast, a narrow bus may use shared or multiplexed bus lines to transmit different types of information (for example both address information and control information) on the same lines.

Packetized / packet-based operation: A packetized bus carries packets of information. A packet of information is a set of related signals carried on a bus over multiple clock lines that has a distinguishable beginning and ending point. Within that packet can be multiple different types of information regarding a transaction like a read or write request. For example, a packet could include address, command, and data information. This technology characterized each of the various forms of RDRAM and was proposed for some forms of SyncLink and RamLink DRAM. This technology is not used in either SDRAM or DDR SDRAM.

Phase lock loops / Delay lock loops: Phase lock loops ("PLLs") and delay lock loops ("DLLs") are circuits used to adjust the timing of the clock on each DRAM in a computer to bring that clock into closer alignment with a system clock. It is a technology included on DDR SDRAM and on RDRAM, although each used the circuits in different ways. Neither the original version of SyncLink nor SDRAM made use of either PLLs or DLLs to align the clock on the DRAM with the system clock.

Processor / CPU: Central processing unit. The processor / CPU is the central brain of the computer. The processor / CPU makes decisions based on the information that it receives from memory devices, including the DRAM chips. Examples of current processor / CPUs are Intel's Pentium 4 or Intel's Pentium M.

Programmable burst length: Programmable burst length refers to a method of determining the number of cycles of data to be transmitted to the memory controller in response to a single command. It is a technology included on both SDRAM and DDR SDRAM. RDRAM uses a similar technology it refers to as programmable block size.

Programmable CAS latency: Programmable CAS latency refers to a method of controlling data output timing by determining the number of clock cycles to pass after the memory controller sends the column access strobe, or CAS, before valid data appears on the bus lines. It is a technology included on both SDRAM and DDR SDRAM. RDRAM uses a similar technology it refers to as programmable access time.

Quad CAS: Quad CAS is a technology that was incorporated in JEDEC DRAM standards in
the early 1990s. This technology allowed the DRAM industry to use standard DRAMs with four data lines in combination with the error detection technology (parity checking) used at the time. Without quad CAS or a comparable technology, only specialized DRAMs with single data lines could take advantage of that error detection technology.

RamLink: RamLink was a specification for a packet-based memory that was developed at an IEEE working group in the 1990s. RamLink was developed with a triply multiplexed, packetized bus. Although it was standardized, it never achieved significant market penetration. RamLink was a forerunner of SyncLink.

RDRAM: Rambus Dynamic Random Access Memory. RDRAM is a proprietary type of DRAM that was designed by Rambus founders Horowitz and Farmwald in 1989 through the early 1990s. The initial RDRAM design, as described in Rambus's patents, was characterized by its narrow bus-only 14 lines in its preferred implementation-and triply multiplexed, triply packetized bus architecture. The basic notion of RDRAM was to use a narrow, high-speed bus to carry data in packets between memory chips. The narrow bus connecting the memory chips to the memory controller would carry all address, data, and control information to each of the memory chips in the system, where device identifier information in each packet would be used to identify which DRAM in the system would use each packet.

There have been a number of different versions of RDRAM, starting with the original version described in the April 1990 patent application, followed by Basic, Concurrent, and Direct RDRAM in sequence. Direct RDRAM is the version developed for, and currently being used in, personal computers. The main differences between the different versions of RDRAM is that the original version used and a very small number of lines in the bus to carry substantially all of the information transmitted between the chipset and the DRAMs, and did not use dedicated lines, while later versions of RDRAM increased the number of lines in the memory bus overall and started to use lines dedicated for specific types of data (e.g., address lines). Even with the additional lines, the RDRAM memory bus has substantially fewer lines than JEDEC standardcompliant systems. For this reason, RDRAM memory is often referred to as having a narrowbus architecture.

SDRAM: Synchronous Dynamic Random Access Memory. SDRAM is a type of DRAM that was designed by members of JEDEC in the early 1990s. SDRAM is synchronous, i.e., each DRAM's internal clock, which governs its behavior, is linked to a system clock, allowing for more rapid sequencing of communications between the CPU and memory. The typical SDRAM uses a number of dedicated lines to carry control, address, and data signals between the memory controller and each memory chip. As a result the number of bus lines is large relative to the number of lines in an RDRAM system, often ranging from 100 to 200 parallel bus lines. For this reason, SDRAM memory is often referred to as having a wide-bus architecture.

SDRAM Lite: SDRAM Lite was a proposal for a simpler, cheaper version of the SDRAM Standard that was discussed at JEDEC during the mid 1990s. It did not include all of the features of SDRAM. In some proposals for SDRAM Lite, both burst length and CAS latency were to be fixed and not programmable.

SDRAM Standard: The SDRAM Standard was developed during the early 1990s at JEDEC
and was adopted as a JEDEC standard in October 1993. Memory devices conforming to the SDRAM Standard began ramping up in production in the mid-1990s and by 1998, SDRAMs accounted for approximately $60 \%$ of DRAM revenue share.

SyncLink: SyncLink was a specification for another form of packet-based memory that was first proposed at the IEEE during the mid 1990s and later developed in the privately formed SyncLink Consortium. Later proposals were doubly multiplexed and packetized; they had shared command and address lines and separate, dedicated data lines. SyncLink never achieved significant market penetration.

System clock: A system clock in a computer consists of a series of electrical impulses that resemble sine waves. A system clock is used to ensure that the behavior of each component in the system (e.g., DRAMs and memory controllers) maintain their operations in an appropriate timing to all of the other components in the system.

Source Synchronous clocking: Source synchronous clocking is a technology where a clock signal travels with the data and is used to capture the data off of the bus. Because both the data signals and the clock signals come from the same source, the clock and data have a fixed, known (synchronous) relationship to each other, thereby allowing for increased data rates. It is a technology included on DDR SDRAM, but not on SDRAM.

## Appendix B

## Witness Index ${ }^{1}$

Steven Appleton: Chairman of the Board of Directors, Chief Executive Officer and President of Micron Technology, Inc. Mr. Appleton has been at Micron since 1991.

Andreas Bechtolsheim: Vice President and General Manager of Gigabit Systems at Cisco Systems, Inc. He co-founded Sun Microsystems, a company that builds UNIX servers and workstations and was Vice President of Technology. He also founded Granite Systems, a developer of gigabit switching products.

Henry Becker: Vice President and Managing Director of Infineon Technologies Richmond. Mr. Becker is in charge of the operations of Infineon's DRAM manufacturing plant in Richmond.

Reese Brown: Retired engineer who attended JEDEC meetings as a consultant to JEDEC in the 1990's.

Sam Calvin: Former Senior Staff Electrical Engineer at Intel Corporation. Mr. Calvin was a representative for Intel at JEDEC meetings from 1992-1997.

Samuel Chen: Mitsubishi’s JEDEC representative throughout the 1990's.
Richard Crisp: Engineer who was Technology and Business Development Manager of the Asia-Pacific Region at Rambus. Mr. Crisp was the primary Rambus representative at JEDEC JC 42.3 meetings from May 1992 until Rambus withdrew from JEDEC.

William Davidow: Chairman of the Board of Directors at Rambus.
Anthony Diepenbrock: Patent attorney who joined Rambus as an in-house lawyer in September 1995 and remained until May 1999. He is now Of Counsel at Dechert LLP.

Mike Farmwald: Co-founder of Rambus and member of its Board of Directors.

Martin Fliesler: Founding partner of the intellectual property law firm of Fliesler, Dubb, Meyer \& Lovejoy LLP in San Francisco, California.

Michael Geilhufe: Consultant and retired Intel executive.

[^0]Bob Goodman: Chief Executive Officer of Kentron Technologies, Inc, a company that provides memory solutions.

Jackie Gross: Director of Memory Central Direct Procurement at Hewlett-Packard Company. Ms. Gross was formerly the head of memory procurement, including DRAM, at Compaq. She supervised Compaq's JEDEC representative and is currently the supervisor of Hewlett-Packard's JEDEC representative.

Alan Grossmeier: Engineer at Cray, Inc, who has served as Cray's JEDEC representative since 1989.

David Gustavson: Secretary of the SyncLink Consortium in the mid-1990's who attended and took minutes of numerous SyncLink meetings.

Craig Hampel: Technical Director at Rambus.

Gary Harmon: Former Chief Financial Officer at Rambus.
Richard Heye: Vice President and General Manager of Platform Engineering \& Infrastructure at Advanced Micro Devices, Inc, a company that makes and sells microprocessors and flash memory.

Mark Horowitz: Co-founder of Rambus and member of its Board of Directors.

Bruce L. Jacob: Associate Professor of Department of Electrical \& Computer Engineering at the University of Maryland.

Joel Karp: Former Vice-President of Intellectual Property at Rambus in the late 1990's. Mr. Karp was a JEDEC representative for Samsung in the early to mid 1990's.

Gordon Kelley: Senior Engineer at IBM Corporation. Mr. Kelley was chairman of JEDEC subcommittee JC-42.3, served as Chair of the JEDEC Council, and represented IBM at JEDEC from 1984-1998.

John Kelly: Executive Vice President and General Counsel of the Electronic Industries Alliance and President of the JEDEC Solid State Technology Association. He has been the EIA General Counsel since September of 1990 and the JEDEC President since 2000.

Mark Kellogg: Distinguished Engineer at IBM Corporation with responsibilities associated with definition of the memory used in IBM's servers. Mr. Kellogg has been a participant and/or representative in JEDEC meetings since 1989.

Ilan Krashinsky: Memory Technology Expert at Hewlett-Packard Company. Mr. Krashinsky has represented Hewlett-Packard in JEDEC meetings.

Thomas Landgraf: Commodity Manager for Semiconductor Memories at Cisco Systems, Inc.

Mr. Landgraf formerly was a DRAM Senior Procurement Engineer at Hewlett-Packard Company. Mr. Landgraf attended JC-42.3 subcommittee meetings on behalf of Hewlett-Packard from 1994-1999 and served on the JEDEC Council from 1998-1999.

Terry Lee: Executive Director of Advanced Technology and Strategic Marketing at Micron Technology, Inc. He was also a JEDEC participant for Micron from 1994-2002.

Joe Macri: Director of Technology at ATI Technologies, Inc, a company that provides graphics design to the computer industry. Mr. Macri has been a representative to JEDEC since 1997, presided as the former Chairman of the Future DRAM Task Group, and is the current chairman of JEDEC subcommittee JC-42.3.

Pete MacWilliams: Senior Fellow at Intel Corporation, and is also Director of Platform Architecture.

Jeffrey Mailloux: Executive at Micron Technology, Inc.
Preston McAfee: Murray Johnson Professor of Economics at the University of Texas, Austin.
Jim McGrath: Director of Strategic Product Development at Molex Connector Corporation. He has been a JEDEC representative on behalf of Molex since 1992.

Willi Meyer: Manager of Technical Marketing for Memory Products at Infineon AG. He was a JEDEC representative for Siemens, then later for Infineon since 1985 and acted as the primary representative for many years.

David Mooring: President Rambus and member of its Board of Directors.
Mark E. Nusbaum: Examiner in Chief at the Patent and Trademark Office and is currently a patent attorney with Nixon and Vanderhye, P.C. law firm, resident in the firm’s Arlington, Virginia office.
K. H. Oh: Professor at the Korea Advanced Institute of Science and Technology. He was formerly a Senior Vice President at Hyundai, now Hynix, overseeing Hyundai’s semiconductor operation.

Martin Peisl: Senior Director for Specialty DRAM Marketing for Infineon Technologies North America Corp.

Steven Polzin: Senior AMD Fellow and Chief Platform Architect at Advanced Micro Devices, Inc.

Betty Prince: DRAM industry consultant with her own firm, Memory Strategies International. While at Texas Instruments in the early 1990's, she served as a JEDEC representative.

Richard Rapp: President of National Economics Research Associates ("NERA"), which is an
economics consulting firm that specializes in the economics of competition. Prior to joining NERA, Dr. Rapp was a professor at the State University of New York at Stony Brook.

Werner Reczek: Vice President and Managing Director at Infineon Technologies Austria AG in Villach, Austria.

Desi Rhoden: President and Chief Executive Officer of Advanced Memory International, Inc. Mr. Rhoden formerly worked at Hewlett-Packard, and VLSI, a chipset manufacturer, and represented both companies at JEDEC. Mr. Rhoden has been a JEDEC member since the late 1980s. He was the Chairman of the JEDEC Council in 1998 and is the current Chairman of the Board of JEDEC. He also serves as Chairman of the JC-42 committee.

Brian Shirley: Design Operations Manager for the Computing and Consumer Group at Micron Technology, Inc.

Donald Soderman: Consultant and retired executive in the semiconductor industry.
Howard Sussman: Senior Manager of Marketing \& Development at Sanyo Semiconductor Corporation. Mr. Sussman has served as a participant of Mostek, NEC and Sanyo in JEDEC meetings since 1979. Mr. Sussman is a member of the Board of Directors of JEDEC.

Farhad Tabrizi: Vice President of Worldwide Marketing of Memory Products at Hynix Semiconductor Inc. Mr. Tabrizi was a representative of Hynix (and its predecessors) in JEDEC meetings. Mr. Tabrizi was chairman of the SyncLink Consortium.

Geoffrey Tate: Chief Executive Officer of Rambus and member of its Board of Directors.
David Teece: Chairman of LECG, an economic consulting firm, who is also a Professor at the Haas School of Business at the University of California, Berkeley.

Lester Vincent: Partner at Blakely, Sokoloff, Taylor \& Zafman, resident in the firm's Sunnyvale, California office. He served as Rambus's outside patent counsel for much of the 1990s.

Barry Wagner: Manager of Technical Marketing at nVIDIA Corporation, a designer and manufacturer of graphics processors and chipsets. Mr. Wager has been a representative of nVIDIA in JEDEC meetings.

Fred Ware: Principal Engineer at Rambus.
Hans Wiggers: JEDEC representative on behalf of Hewlett-Packard during much of the 1990's. He was also a member of the JEDEC Council.

Brett Williams: Strategic Marketing Manager for Desktop Systems at Micron Technology, Inc. Mr. Williams was a representative of Micron in JEDEC meetings from 1991-1993.

## Appendix C

## Cross-Reference of Findings Of Fact

| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1 | CCFF 10 | RRFF 10 |
| 2 | CCFF 11 | RRFF 11 |
| 3 | CCFF 12 | RRFF 12 |
| 4 | CCFF 14; RRFF 14 |  |
| 5 | CCFF 17 | RRFF 17 |
| 6 | CCFF 27 | RRFF 27 |
| 7 | CCFF 35 | RRFF 35 |
| 8 | CCFF 36 | RRFF 36 |
| 9 | CCFF 37-38 | RRFF 37-38 |
| 10 | CCFF 39; RRFF 39 |  |
| 11 | CCFF 40-41 | RRFF 40-41 |
| 12 | CCFF 42 | RRFF 42 |
| 13 | CCFF 44* | RRFF 44 |
| 14 | RFF 795 | CCRF 795 |
| 15 | RFF 796 | CCRF 796 |
| 16 | CCFF 46 | RRFF 46 |
| 17 | CCFF 48 | RRFF 48 |
| 18 | CCFF 49 | RRFF 49 |
| 19 | CCFF 50 | RRFF 50 |
| 20 | CCFF 51 | RRFF 51 |
| 21 | CCFF 52 | RRFF 52 |
| 22 | CCFF 53 | RRFF 53 |
| 23 | CCFF 54 | RRFF 54 |
| 24 | CCFF 56 | RRFF 56 |
| 25 | CCFF 57 | RRFF 57 |
| 26 | $\begin{aligned} & \text { RFF 1278*, RFF } \\ & \text { 1291* } \end{aligned}$ | CCRF 1278, CCRF |
| 27 | RFF 27 | CCRF 27 |
| 28 | RFF 28 | CCRF 28 |
| 29 | RFF 29 | CCRF 29 |
| 30 | RFF 30* | CCRF 30 |
| 31 | RFF 31 | CCRF 31 |

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*: contains portion or is similar to proposed finding

| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 32 | RFF 32 | CCRF 32 |
| 33 | RFF 33* | CCRF 33 |
| 34 | RFF 33* | CCRF 33 |
| 35 | RFF 34 | CCRF 34 |
| 36 | RFF 35 | CCRF 35 |
| 37 | RFF 36 | CCRF 36 |
| 38 | RFF 37 | CCRF 37 |
| 39 | RFF 38 | CCRF 38 |
| 40 | RFF 39 | CCRF 39 |
| 41 | RFF 41 | CCRF 41 |
| 42 | RFF 42 | CCRF 42 |
| 43 | RFF 43 | CCRF 43 |
| 44 | RFF 44 | CCRF 44 |
| 45 | RFF 45 | CCRF 45 |
| 46 | RFF 59 | CCRF 59 |
| 47 | RFF 60 | CCRF 60 |
| 48 | RFF 61 | CCRF 61 |
| 49 | RFF 62 | CCRF 62 |
| 50 | RFF 63 | CCRF 63 |
| 51 | RFF 64 | CCRF 64 |
| 52 | RFF 65 | CCRF 65 |
| 53 | RFF 66 | CCRF 66 |
| 54 | RFF 67 | CCRF 67 |
| 55 | RFF 68 | CCRF 68 |
| 56 | RFF 69 | CCRF 69 |
| 57 | RFF 70 | CCRF 70 |
| 58 | CCFF 700* | RRFF 700 |
| 59 | CCFF 701 | RRFF 701 |
| 60 | RFF 1194* | CCRF 1194 |
| 61 | $\sim$ |  |
| 62 | RRFF 703 |  |
| 63 | $\begin{gathered} \text { CCFF 704; RRFF } \\ 704 \end{gathered}$ |  |
| 64 | $\begin{gathered} \text { CCFF 705; RRFF } \\ 705 \end{gathered}$ |  |
| 65 | RRFF 706* |  |
| 66 | RRFF 706* |  |
| 67 | RRFF 706* |  |

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| :---: | :---: | :---: |
| 68 | $\begin{gathered} \text { CCFF 707; RRFF } \\ 707 \end{gathered}$ |  |
| 69 | CCFF 710 | RRFF 710 |
| 70 | CCFF 711 | RRFF 711 |
| 71 | CCFF 713 | RRFF 713 |
| 72 | RFF 50* | CCRF 50 |
| 73 | RFF 50* | CCRF 50 |
| 74 | CCRF 50 |  |
| 75 | RFF 51* | CCRF 51 |
| 76 | RFF 51* | CCRF 51 |
| 77 | RFF 51* | CCRF 51 |
| 78 | CCRF 51 |  |
| 79 | RFF 52 | CCRF 52 |
| 80 | RFF 53 | CCRF 53 |
| 81 | RFF 56* | CCRF 56 |
| 82 | RFF 57 | CCRF 57 |
| 83 | CCFF 714 | RRFF 714 |
| 84 | CCFF 715 | RRFF 715 |
| 85 | CCFF 716 | RRFF 716 |
| 86 | RRFF 717 |  |
| 87 | CCFF 720 | RRFF 720 |
| 88 | CCFF 721 | RRFF 721 |
| 89 | CCFF 722 | RRFF 722 |
| 90 | CCFF 723 | RRFF 723 |
| 91 | CCFF 724 | RRFF 724 |
| 92 | CCFF 732* | RRFF 732 |
| 93 | RRFF 732* |  |
| 94 | CCFF 733 | RRFF 733 |
| 95 | RRFF 733 |  |
| 96 | CCFF 735* | RRFF 735 |
| 97 | CCFF 739 | RRFF 739 |
| 98 | $\begin{gathered} \text { CCFF 740; RRFF } \\ 740 \text { * } \end{gathered}$ |  |
| 99 | $\begin{gathered} \text { CCFF 741; RRFF } \\ 741^{*} \\ \hline \end{gathered}$ |  |
| 100 | CCFF 744 | RRFF 744 |
| 101 | RRFF 744 |  |
| 102 | RFF 606 | CCRF 606 |
| 103 | RFF 607 | CCRF 607 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 104 | RFF 608 | CCRF 608 |
| 105 | RFF 609 | CCRF 609 |
| 106 | RFF 610 | CCRF 610 |
| 107 | RFF 611 | CCRF 611 |
| 108 | RFF 612 | CCRF 612 |
| 109 | RFF 613* | CCRF 613 |
| 110 | RFF 614 | CCRF 614 |
| 111 | RFF 616* | CCRF 616 |
| 112 | RFF 616* | CCRF 616 |
| 113 | RFF 617 | CCRF 617 |
| 114 | RFF 618 | CCRF 618 |
| 115 | RFF 619* | CCRF 619 |
| 116 | RFF 620 | CCRF 620 |
| 117 | RFF 621 | CCRF 621 |
| 118 | RFF 622* | CCRF 622 |
| 119 | RFF 623* | CCRF 623 |
| 120 | RFF 624* | CCRF 624 |
| 121 | RFF 625* | CCRF 625 |
| 122 | RFF 626 | CCRF 626 |
| 123 | RFF 627 | CCRF 627 |
| 124 | RFF 628 | CCRF 628 |
| 125 | RFF 629* | CCRF 629 |
| 126 | RFF 629* | CCRF 629 |
| 127 | RFF 630 | CCRF 630 |
| 128 | RFF 631 | CCRF 631 |
| 129 | RFF 632 | CCRF 632 |
| 130 | RFF 633 | CCRF 633 |
| 131 | RFF 634 | CCRF 634 |
| 132 | RFF 635 | CCRF 635 |
| 133 | RFF 636 | CCRF 636 |
| 134 | RFF 637 | CCRF 637 |
| 135 | RFF 597 | CCRF 597 |
| 136 | RFF 598 | CCRF 598 |
| 137 | RFF 599 | CCRF 599 |
| 138 | RFF 600 | CCRF 600 |
| 139 | RFF 601 | CCRF 601 |
| 140 | RFF 602 | CCRF 602 |
| 141 | RFF 603 | CCRF 603 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 142 | RFF 604 | CCRF 604 |
| 143 | RFF 605 | CCRF 605 |
| 144 | RFF 648 | CCRF 648 |
| 145 | RFF 649-50 | CCRF 649-50 |
| 146 | RFF 651 | CCRF 651 |
| 147 | RFF 653 | CCRF 653 |
| 148 | RFF 654 | CCRF 654 |
| 149 | RFF 638 | CCRF 638 |
| 150 | RFF 639 | CCRF 639 |
| 151 | RFF 640 | CCRF 640 |
| 152 | RFF 641 | CCRF 641 |
| 153 | RFF 642 | CCRF 642 |
| 154 | RFF 643 | CCRF 643 |
| 155 | RFF 644 | CCRF 644 |
| 156 | RFF 645 | CCRF 645 |
| 157 | RFF 646 | CCRF 646 |
| 158 | RFF 647 | CCRF 647 |
| 159 | $\begin{gathered} \text { CCFF 746; RRFF } \\ 746 \end{gathered}$ |  |
| 160 | CCFF 747 | RRFF 747 |
| 161 | $\begin{aligned} & \text { CCFF 747; RRFF } \\ & 747 \end{aligned}$ |  |
| 162 | CCFF 1246* | RRFF 1248 |
| 163 | CCFF 1249* | RRFF 1249 |
| 164 | $\begin{gathered} \text { CCFF } 1250 ; \text { RRFF } \\ 1250 \end{gathered}$ |  |
| 165 | CCFF 1252* | RRFF 1252 |
| 166 | $\begin{gathered} \text { CCFF 756; RRFF } \\ 756 \end{gathered}$ |  |
| 167 | $\begin{gathered} \text { CCFF 763; RRFF } \\ 763 \end{gathered}$ |  |
| 168 | CCFF 725 | RRFF 725 |
| 169 | CCFF 729* | RRFF 729 |
| 170 | CCFF 729* | RRFF 729 |
| 171 | CCFF 729* | RRFF 729 |
| 172 | CCFF 730* | RRFF 730 |
| 173 | CCFF 730* | RRFF 730 |
| 174 | CCFF 730* | RRFF 730 |
| 175 | CCFF 730* | RRFF 730 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 176 | CCFF 731 | RRFF 731 |
| 177 | RFF 657 | CCRF 657 |
| 178 | RFF 658 | CCRF 658 |
| 179 | RFF 714 | CCRF 714 |
| 180 | RFF 715 | CCRF 715 |
| 181 | RFF 716 | CCRF 716 |
| 182 | RFF 717* | CCRF 717 |
| 183 | RFF 659 | CCRF 659 |
| 184 | RFF 660 | CCRF 660 |
| 185 | RFF 661 | CCRF 661 |
| 186 | RFF 662 | CCRF 662 |
| 187 | RFF 663 | CCRF 663 |
| 188 | RFF 665 | CCRF 665 |
| 189 | RFF 667 | CCRF 667 |
| 190 | RFF 664 | CCRF 664 |
| 191 | RFF 668 | CCRF 668 |
| 192 | RFF 669 | CCRF 669 |
| 193 | RFF 671 | CCRF 671 |
| 194 | RFF 672 | CCRF 672 |
| 195 | RFF 673 | CCRF 673 |
| 196 | RFF 674 | CCRF 674 |
| 197 | RFF 676 | CCRF 676 |
| 198 | RFF 677 | CCRF 677 |
| 199 | RFF 678 | CCRF 678 |
| 200 | RFF 679 | CCRF 679 |
| 201 | RFF 681 | CCRF 681 |
| 202 | RFF 682 | CCRF 682 |
| 203 | RFF 683 | CCRF 683 |
| 204 | RFF 685* | CCRF 685 |
| 205 | RFF 687 | CCRF 687 |
| 206 | RFF 688 | CCRF 688 |
| 207 | RFF 689 | CCRF 689 |
| 208 | RFF 690 | CCRF 690 |
| 209 | RFF 691* | CCRF 691 |
| 210 | RFF 692 | CCRF 692 |
| 211 | RFF 693 | CCRF 693 |
| 212 | RFF 694 | CCRF 694 |
| 213 | RFF 696 | CCRF 696 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 214 | RFF 697* | CCRF 697 |
| 215 | RFF 698 | CCRF 698 |
| 216 | RFF 699 | CCRF 699 |
| 217 | RFF 700 | CCRF 700 |
| 218 | RFF 701* | CCRF 701 |
| 219 | RFF 703 | CCRF 703 |
| 220 | CCFF 201 | RRFF 201 |
| 221 | CCFF 200 | RRFF 200 |
| 222 | $\begin{gathered} \text { CCFF 202*; RRFF } \\ 202 \end{gathered}$ |  |
| 223 | CCFF 202* | RRFF 202 |
| 224 | CCFF 203 | RRFF 203 |
| 225 | CCFF 204 | RRFF 204 |
| 226 | $\begin{gathered} \text { CCFF 206; RRFF } \\ 206 \end{gathered}$ |  |
| 227 | CCFF 209* | RRFF 209 |
| 228 | RRFF 209* |  |
| 229 | RRFF 209* |  |
| 230 | CCFF 210 | RRFF 210 |
| 231 | RRFF 211 |  |
| 232 | CCFF 213 | RRFF 213 |
| 233 | CCFF 214* | RRFF 214 |
| 234 | RRFF 214* |  |
| 235 | $\begin{gathered} \text { CCFF 215; RRFF } \\ 215 \end{gathered}$ |  |
| 236 | RRFF 216 |  |
| 237 | $\begin{gathered} \text { CCFF 219; RRFF } \\ 219 \end{gathered}$ |  |
| 238 | RRFF 219 |  |
| 239 | CCFF 221* | RRFF 221 |
| 240 | CCFF 221* | RRFF 221 |
| 241 | CCFF 222 | RRFF 222 |
| 242 | CCFF 224 | RRFF 224 |
| 243 | CCFF 227 | RRFF 227 |
| 244 | CCFF 225-26 | RRFF 225-26 |
| 245 | RRFF 226 |  |
| 246 | CCFF 228 | RRFF 228 |
| 247 | CCFF 230* | RRFF 230 |
| 248 | CCFF 230* | RRFF 230 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 249 | CCFF 231 | RRFF 231 |
| 250 | CCFF 232 | RRFF 232 |
| 251 | CCFF 233 | RRFF 233 |
| 252 | $\begin{gathered} \text { CCFF 234; RRFF } \\ 234 \end{gathered}$ |  |
| 253 | CCFF 235 | RRFF 235 |
| 254 | CCFF 236 | RRFF 236 |
| 255 | $\begin{gathered} \text { CCFF 237; RRFF } \\ 237 \end{gathered}$ |  |
| 256 | $\begin{gathered} \text { CCFF 238; RRFF } \\ 238 \end{gathered}$ |  |
| 257 | CCFF 239 | RRFF 239 |
| 258 | CCFF 243 | RRFF 243 |
| 259 | CCFF 506 | RRFF 506 |
| 260 | CCFF 241 | RRFF 241 |
| 261 | CCFF 245 | RRFF 245 |
| 262 | CCFF 247 | RRFF 247 |
| 263 | CCFF 248 | RRFF 248 |
| 264 | CCFF 249 | RRFF 249 |
| 265 | CCFF 252 | RRFF 252 |
| 266 | CCFF 254* | RRFF 254 |
| 267 | CCFF 254* | RRFF 254 |
| 268 | CCFF 255 | RRFF 255 |
| 269 | CCFF 257 | RRFF 257 |
| 270 | CCFF 258 | RRFF 258 |
| 271 | CCFF 260 | RRFF 260 |
| 272 | CCFF 867 | RRFF 867 |
| 273 | $\begin{gathered} \text { CCFF 982*; CCFF } \\ 1039^{*} \\ \hline \end{gathered}$ | $\begin{gathered} \text { RRFF 982; RRFF } \\ 1039 \end{gathered}$ |
| 274 | RRFF 867 |  |
| 275 | CCFF 871*, 880*, 902*, etc. | RRFF 871, 880, 902, etc. |
| 276 | RRFF 902 |  |
| 277 | $\begin{gathered} \text { CCFF 968; RRFF } \\ 968 \end{gathered}$ |  |
| 278 | RRFF 1626* |  |
| 279 | CCFF 1626* | RRFF 1626 |
| 280 | CCFF 1626* | RRFF 1626 |
| 281 | RRFF 1626* |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 282 | CCFF 1627 | RRFF 1627 |
| 283 | CCFF 1629 | RRFF 1629 |
| 284 | RFF 338 | CCRF 338 |
| 285 | $\sim$ |  |
| 286 | CCFF 503 | RRFF 503 |
| 287 | RRFF 503 |  |
| 288 | CCFF 504 | RRFF 504 |
| 289 | CCFF 2229 | RRFF 2229 |
| 290 | RRFF 2229* |  |
| 291 | RRFF 2229* |  |
| 292 | CCFF 508 | RRFF 508 |
| 293 | RRFF 509 |  |
| 294 | $\begin{aligned} & \text { CCFF 510; RRFF } \\ & 510 \end{aligned}$ |  |
| 295 | CCFF 511 | RRFF 511 |
| 296 | CCFF 512 | RRFF 512 |
| 297 | CCFF 513 | RRFF 513 |
| 298 | RRFF 514* |  |
| 299 | RRFF 514* |  |
| 300 | CCFF 515 | RRFF 515 |
| 301 | CCFF 516* | RRFF 516 |
| 302 | CCFF 516* | RRFF 516 |
| 303 | RRFF 514* |  |
| 304 | RRFF 514* |  |
| 305 | RRFF 514* |  |
| 306 | CCFF 516 | RRFF 516 |
| 307 | CCFF 518 | RRFF 518 |
| 308 | CCFF 519 | RRFF 519 |
| 309 | $\begin{gathered} \text { CCFF 519; RRFF } \\ 519 \end{gathered}$ |  |
| 310 | CCFF 520 | RRFF 520 |
| 311 | CCFF 521 | RRFF 521 |
| 312 | $\begin{gathered} \text { CCFF 522; RRFF } \\ 522^{*} \end{gathered}$ |  |
| 313 | $\begin{gathered} \text { CCFF 523; RRFF } \\ 523 \end{gathered}$ |  |
| 314 | RRFF 524* |  |
| 315 | RRFF 524* |  |
| 316 | CCFF 527* | RRFF 527 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 317 | CCFF 527* | RRFF 527 |
| 318 | $\begin{gathered} \text { CCFF 527; RRFF } \\ 527 \end{gathered}$ |  |
| 319 | $\begin{aligned} & \text { CCFF 528; RRFF } \\ & 528 \end{aligned}$ |  |
| 320 | CCFF 529-30 | RRFF 529-30 |
| 321 | CCFF 531 | RRFF 531 |
| 322 | CCFF 532* | RRFF 532 |
| 323 | CCFF 532* | RRFF 532 |
| 324 | CCFF 535 | RRFF 535 |
| 325 | CCFF 536 | RRFF 536 |
| 326 | CCFF 537 | RRFF 537 |
| 327 | CCFF 538 | RRFF 538 |
| 328 | CCFF 539 | RRFF 539 |
| 329 | CCFF 540 | RRFF 540 |
| 330 | CCFF 925 | RRFF 925 |
| 331 | CCFF 542 | RRFF 542 |
| 332 | CCFF 543 | RRFF 543 |
| 333 | CCFF 544 | RRFF 544 |
| 334 | CCFF 545 | RRFF 545 |
| 335 | CCFF 546 | RRFF 546 |
| 336 | CCFF 547 | RRFF 547 |
| 337 | CCFF 548 | RRFF 548 |
| 338 | RRFF 545 |  |
| 339 | CCFF 549 | RRFF 549 |
| 340 | CCFF 550* | RRFF 550 |
| 341 | CCFF 550* | RRFF 550 |
| 342 | CCFF 551 | RRFF 551 |
| 343 | RRFF 549 |  |
| 344 | CCFF 552 | RRFF 552 |
| 345 | CCFF 553 | RRFF 553 |
| 346 | RRFF 552 |  |
| 347 | CCFF 554 | RRFF 554 |
| 348 | RRFF 554 |  |
| 349 | CCFF 555 | RRFF 555 |
| 350 | RRFF 555 |  |
| 351 | CCFF 558 | RRFF 558 |
| 352 | CCFF 559 | RRFF 559 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 353 | CCFF 560 | RRFF 560 |
| 354 | CCFF 561 | RRFF 561 |
| 355 | CCFF 562 | RRFF 562 |
| 356 | CCFF 977 | RRFF 977 |
| 357 | CCFF 563 | RRFF 563 |
| 358 | RRFF 718 |  |
| 359 | CCFF 566 | RRFF 566 |
| 360 | CCFF 567 | RRFF 567 |
| 361 | CCFF 568 | RRFF 568 |
| 362 | RRFF 569 |  |
| 363 | CCFF 570 | RRFF 570 |
| 364 | CCFF 571 | RRFF 571 |
| 365 | $\begin{gathered} \text { CCFF 572; RRFF } \\ 572 \end{gathered}$ |  |
| 366 | CCFF 573 | RRFF 573 |
| 367 | $\begin{gathered} \text { CCFF 574; RRFF } \\ 574 \end{gathered}$ |  |
| 368 | CCFF 575 | RRFF 575 |
| 369 | CCFF 576 | RRFF 576 |
| 370 | CCFF 577 | RRFF 577 |
| 371 | RRFF 580* |  |
| 372 | RFF 410 | CCRF 410 |
| 373 | RFF 403 | CCRF 403 |
| 374 | RFF 405 | CCRF 405 |
| 375 | RFF 404 | CCRF 404 |
| 376 | RFF 407; RFF 411 | $\begin{gathered} \text { CCRF 407; CCRF } \\ 411 \end{gathered}$ |
| 377 | RFF 411 | CCRF 411 |
| 378 | RFF 412 | CCRF 412 |
| 379 | RFF 413 | CCRF 413 |
| 380 | RFF 399 | CCRF 399 |
| 381 | RFF 400 | CCRF 400 |
| 382 | RFF 401 | CCRF 401 |
| 383 | RRFF 579* |  |
| 384 | RRFF 579* |  |
| 385 | RRFF 579* |  |
| 386 | RRFF 579* |  |
| 387 | CCFF 588 | RRFF 588 |
| 388 | CCFF 589 | RRFF 589 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 389 | CCFF 590 | RRFF 590 |
| 390 | $\begin{gathered} \text { CCFF 591; RRFF } \\ 591 \end{gathered}$ |  |
| 391 | CCFF 592 | RRFF 592 |
| 392 | CCFF 593 | RRFF 593 |
| 393 | RRFF 2369 |  |
| 394 | RRFF 2370 |  |
| 395 | ~ |  |
| 396 | RRFF 2379 |  |
| 397 | CCFF 604 | RRFF 604 |
| 398 | $\begin{gathered} \text { CCFF 2370; RRFF } \\ 2370 \end{gathered}$ |  |
| 399 | CCFF 610 | RRFF 610 |
| 400 | CCFF 611 | RRFF 611 |
| 401 | CCFF 612 | RRFF 612 |
| 402 | CCFF 613 | RRFF 613 |
| 403 | $\begin{gathered} \text { CCFF 614; RRFF } \\ 614 \end{gathered}$ |  |
| 404 | CCFF 615 | RRFF 615 |
| 405 | CCFF 617 | RRFF 617 |
| 406 | $\begin{gathered} \text { CCFF 618; RRFF } \\ 618 \end{gathered}$ |  |
| 407 | CCFF 619 | RRFF 619 |
| 408 | RRFF 620 |  |
| 409 | RRFF 621 |  |
| 410 | $\begin{gathered} \text { CCFF 622; RRFF } \\ 622 \\ \hline \end{gathered}$ |  |
| 411 | CCFF 623; RRFF 623; RRFF 578 |  |
| 412 | CCFF 628 | RRFF 628 |
| 413 | RRFF 628 |  |
| 414 | $\begin{aligned} & \text { CCFF 629; RRFF } \\ & 629 \end{aligned}$ |  |
| 415 | CCFF 633 | RRFF 633 |
| 416 | CCFF 637 | RRFF 637 |
| 417 | CCFF 638 | RRFF 638 |
| 418 | $\begin{gathered} \text { CCFF 639; RRFF } \\ 639 \\ \hline \end{gathered}$ |  |
| 419 | CCFF 2332 | RRFF 2332 |
| 420 | CCFF 642 | RRFF 642 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 421 | CCFF 643 | RRFF 643 |
| 422 | CCFF 644 | RRFF 644 |
| 423 | CCFF 645 | RRFF 645 |
| 424 | RRFF 646 | RRFF 646 |
| 425 | CCFF 647 | RRFF 647 |
| 426 | $\begin{gathered} \text { CCFF 648; RRFF } \\ 648 \end{gathered}$ |  |
| 427 | CCFF 649 | RRFF 649 |
| 428 | CCFF 651 | RRFF 651 |
| 429 | CCFF 652 | RRFF 652 |
| 430 | CCFF 653 | RRFF 653 |
| 431 | CCFF 655 | RRFF 655 |
| 432 | RRFF 656 |  |
| 433 | $\begin{aligned} & \text { CCFF 657; RRFF } \\ & 657 \end{aligned}$ |  |
| 434 | CCFF 658 | RRFF 658 |
| 434 | RRFF 658 |  |
| 435 | $\sim$ |  |
| 437 | CCFF 1501 | RRFF 1501 |
| 438 | CCFF 1502 | RRFF 1502 |
| 439 | CCFF 1503 | RRFF 1503 |
| 440 | $\begin{gathered} \text { CCFF 1504*; RRFF } \\ 1504 \end{gathered}$ |  |
| 441 | CCFF 1505* | RRFF 1505 |
| 442 | CCFF 1512 | RRFF 1512 |
| 443 | CCFF 1513 | RRFF 1513 |
| 444 | CCFF 1517 | RRFF 1517 |
| 445 | CCFF 1507 | RRFF 1507 |
| 446 | CCFF 1511 | RRFF 1511 |
| 447 | CCFF 1521 | RRFF 1521 |
| 448 | CCFF 1522* | RRFF 1522 |
| 449 | CCFF 1522* | RRFF 1522 |
| 450 | CCFF 1523 | RRFF 1523 |
| 451 | CCFF 1525 | RRFF 1525 |
| 452 | $\begin{gathered} \text { CCFF 1526*; CCFF } \\ 1527 \end{gathered}$ | RRFF 1526-27 |
| 453 | CCFF 1528 | RRFF 1528 |
| 454 | CCFF 1529; RRFF 1529 |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 455 | CCFF 1531* | RRFF 1531 |
| 456 | CCFF 1532* | RRFF 1532 |
| 457 | $\sim$ |  |
| 458 | CCFF 1540 | RRFF 1540 |
| 459 | CCFF 1541 | RRFF 1541 |
| 460 | RRFF 1542 |  |
| 461 | CCFF 1543 | RRFF 1543 |
| 462 | $\begin{gathered} \text { CCFF 1544; RRFF } \\ 1544 \end{gathered}$ |  |
| 463 | CCFF 1550 | RRFF 1550 |
| 464 | CCFF 1555* | RRFF 1555 |
| 465 | CCFF 1556 | RRFF 1556 |
| 466 | RRFF 1556 |  |
| 467 | RRFF 1514 |  |
| 468 | RRFF 1514 |  |
| 469 | RRFF 1514 |  |
| 470 | CCFF 1557 | RRFF 1557 |
| 471 | CCFF 1563 | RRFF 1563 |
| 472 | CCFF 1565 | RRFF 1565 |
| 473 | CCFF 1567 | RRFF 1567 |
| 474 | RRFF 1568 |  |
| 475 | CCFF 1569 | RRFF 1569 |
| 476 | RRFF 1570 |  |
| 477 | RRFF 1570 |  |
| 478 | RRFF 1570 |  |
| 479 | CCFF 1577 | RRFF 1577 |
| 480 | CCFF 1579* | RRFF 1579 |
| 481 | CCFF 1579* | RRFF 1579 |
| 482 | CCFF 1583 | RRFF 1583 |
| 483 | CCFF 1585 | RRFF 1585 |
| 484 | RRFF 1586 |  |
| 485 | RRFF 1586 |  |
| 486 | CCFF 1587 | RRFF 1587 |
| 487 | $\begin{gathered} \text { CCFF 1600; RRFF } \\ 1600 \end{gathered}$ |  |
| 488 | RRFF 1600 |  |
| 489 | $\begin{gathered} \text { CCFF 1604; RRFF } \\ 1604 \\ \hline \end{gathered}$ |  |
| 490 | CCFF 1605 | RRFF 1605 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 491 | RRFF 1603 |  |
| 492 | RRFF 1606 |  |
| 493 | CCFF 1606 | RRFF 1606 |
| 494 | CCFF 1607 | RRFF 1607 |
| 495 | CCFF 1610 | RRFF 1610 |
| 496 | CCFF 1611 | RRFF 1611 |
| 497 | CCFF 1612 | RRFF 1612 |
| 498 | CCFF 1613 | RRFF 1613 |
| 499 | $\begin{gathered} \text { CCFF 1614; RRFF } \\ 1614 \end{gathered}$ |  |
| 500 | CCFF 1615 | RRFF 1615 |
| 501 | CCFF 1825 | RRFF 1825 |
| 502 | CCFF 1827 | RRFF 1827 |
| 503 | CCFF 1828 | RRFF 1828 |
| 504 | CCFF 1830 | RRFF 1830 |
| 505 | CCFF 1832 | RRFF 1832 |
| 506 | CCFF 1833 | RRFF 1833 |
| 507 | RRFF 1836 |  |
| 508 | CCFF 1801; RRFF 1801 |  |
| 509 | RRFF 1806 |  |
| 510 | CCFF 1807* | RRFF 1807 |
| 511 | CCFF 1808 | RRFF 1808 |
| 512 | CCFF 1809 | RRFF 1809 |
| 513 | RFF 1592 | CCRF 1592 |
| 514 | $\begin{gathered} \text { CCFF } \begin{array}{c} \text { 1811; RRFF } \\ 1811 \end{array} \\ \hline \end{gathered}$ |  |
| 515 | RRFF 1813 |  |
| 516 | RRFF 1813 |  |
| 517 | $\begin{gathered} \text { CCFF } 1840 ; \text { RRFF } \\ 1840 \end{gathered}$ |  |
| 518 | RFF 1581 | CCRF 1581 |
| 519 | RFF 1597 | CCRF 1597 |
| 520 | $\begin{gathered} \text { CCFF 1841; RRFF } \\ 1841 \end{gathered}$ |  |
| 521 | RRFF 1845 |  |
| 522 | CCFF 1849 | RRFF 1849 |
| 523 | RRFF 1850 |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 524 | $\begin{gathered} \text { CCFF 1851*; CCFF } \\ 1853^{*} \end{gathered}$ | RRFF 1851; RRFF 1853 |
| 525 | RRFF 1861 |  |
| 526 | RFF 1555-56 | CCRF 1555-56 |
| 527 | RFF 1557 ; CCRF 1557 |  |
| 528 | RFF 1558 | CCRF 1558 |
| 529 | RFF 1559 | CCRF 1559 |
| 530 | RFF 1561 | CCRF 1561 |
| 531 | RFF 1562 | CCRF 1562 |
| 532 | RFF 1563 | CCRF 1563 |
| 533 | RFF 1565 | CCRF 1565 |
| 534 | RFF 1566 | CCRF 1566 |
| 535 | RFF 1567 | CCRF 1567 |
| 536 | RFF 1568 | CCRF 1568 |
| 537 | RFF 1569 | CCRF 1569 |
| 538 | RFF 1570 | CCRF 1570 |
| 539 | RFF 1571 | CCRF 1571 |
| 540 | RFF 1572 | CCRF 1572 |
| 541 | RFF 1573 | CCRF 1573 |
| 542 | RFF 1574 | CCRF 1574 |
| 543 | RFF 1575 | CCRF 1575 |
| 544 | RFF 1576* | CCRF 1576 |
| 545 | RFF 1577 | CCRF 1577 |
| 546 | RFF 1578 | CCRF 1578 |
| 547 | RFF 1579* | CCRF 1579 |
| 548 | RFF 1580 | CCRF 1580 |
| 549 | RFF 1583* | CCRF 1583 |
| 550 | RFF 1585* | CCRF 1585 |
| 551 | RFF 1593* | CCRF 1593 |
| 552 | RFF 1593* | CCRF 1593 |
| 553 | RFF 1594 | CCRF 1594 |
| 554 | RFF 1595 | CCRF 1595 |
| 555 | RFF 1596 | CCRF 1596 |
| 556 | RFF 1598 | CCRF 1598 |
| 557 | RFF 1599 | CCRF 1599 |
| 558 | RFF 1600* | CCRF 1600 |
| 559 | RFF 1601 | CCRF 1601 |

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| :---: | :---: | :---: |
| 560 | CCFF 1864 | RRFF 1864 |
| 561 | CCFF 1865 | RRFF 1865 |
| 562 | CCFF 1866 | RRFF 1866 |
| 563 | CCFF 1869 | RRFF 1869 |
| 564 | CCFF 1872 | RRFF 1872 |
| 565 | $\begin{gathered} \text { CCFF } 1874 ; \text { RRFF } \\ 1874 \end{gathered}$ |  |
| 566 | CCFF 1875 | RRFF 1875 |
| 567 | CCFF 1878 | RRFF 1878 |
| 568 | CCFF 1880-81 | RRFF 1880-81 |
| 569 | RRFF 1882 | RRFF 1882 |
| 570 | $\begin{array}{ccc\|c} \text { CCF } 1884 ; \text { RRFF } \\ 1884 \end{array}$ |  |
| 571 | CCFF 1885 | RRFF 1885 |
| 572 | CCFF 1886 | RRFF 1886 |
| 573 | CCFF 1914 | RRFF 1914 |
| 574 | CCFF 1915 | RRFF 1915 |
| 575 | CCFF 1917 | RRFF 1917 |
| 576 | CCFF 1895* | RRFF 1895 |
| 577 | CCFF 1895* | RRFF 1895 |
| 578 | CCFF 1896 | RRFF 1896 |
| 579 | CCFF 1897 | RRFF 1897 |
| 580 | CCFF 1898 | RRFF 1898 |
| 581 | CCFF 1899 | RRFF 1899 |
| 582 | CCFF 1906* | RRFF 1906 |
| 583 | RRFF 1808 |  |
| 584 | RRFF 1910 |  |
| 585 | CCFF 1908 | RRFF 1908 |
| 586 | RRFF 1914 |  |
| 587 | CCFF 310* | RRFF 310 |
| 588 | RRFF 310* |  |
| 589 | $\sim$ |  |
| 590 | RRFF 315* |  |
| 591 | RRFF 310* |  |
| 592 | CCFF 310* | RRFF 310 |
| 593 | RRFF 311* |  |
| 594 | RRFF 312* |  |
| 595 | CCFF 312* | RRFF 312 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 596 | $\sim$ |  |
| 597 | $\sim$ |  |
| 598 | CCFF 300* | RRFF 300 |
| 599 | RRFF 301* |  |
| 600 | $\sim$ |  |
| 601 | CCFF 347* | RRFF 347 |
| 602 | CCFF 355* | RRFF 355 |
| 603 | CCFF 355* | RRFF 355 |
| 604 | RFF 199 | CCRF 199 |
| 605 | RFF 434* | CCRF 434 |
| 606 | RFF 160* | CCRF 160 |
| 607 | RRFF 308* |  |
| 608 | CCFF 406* | RRFF 406 |
| 609 | $\sim$ |  |
| 610 | RFF $115^{\star}$; CCRF $115^{*}$ |  |
| 611 | ~ |  |
| 612 | $\sim$ |  |
| 613 | $\sim$ |  |
| 614 | $\sim$ |  |
| 615 | $\sim$ |  |
| 616 | CCRF 319* |  |
| 617 | $\sim$ |  |
| 618 | RFF 171* | CCRF 171 |
| 619 | $\sim$ |  |
| 620 | $\sim$ |  |
| 621 | $\sim$ |  |
| 622 | $\sim$ |  |
| 623 | $\sim$ |  |
| 624 | $\sim$ |  |
| 625 | RFF 173 | CCRF 173 |
| 626 | $\begin{gathered} \text { RFF } 173^{\star} ; \text { CCRF } \\ 173^{\star} \end{gathered}$ |  |
| 627 | RFF 118, 166-67 | CCRF 118, 166-67 |
| 628 | RRFF 308 |  |
| 629 | RRFF 418 |  |
| 630 | $\sim$ |  |
| 631 | $\sim$ |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 632 | $\sim$ |  |
| 633 | $\sim$ |  |
| 634 | RFF 132 | CCRF 132 |
| 635 | RFF 134 | CCRF 134 |
| 636 | RFF 138 | CCRF 138 |
| 637 | CCRF 133 |  |
| 638 | RFF 133 | CCRF 133 |
| 639 | ~ |  |
| 640 | RFF 209 | CCRF 209 |
| 641 | CCFF 438 | RRFF 438 |
| 642 | RFF 212 | CCRF 212 |
| 643 | $\sim$ |  |
| 644 | ~ |  |
| 645 | CCRF 125* |  |
| 646 | RFF 162* | CCRF 162 |
| 647 | ~ |  |
| 648 | CCFF 375 | RRFF 375 |
| 649 | $\sim$ |  |
| 650 | CCFF 380* | RRFF 380 |
| 651 | RFF 134* | CCRF 134 |
| 652 | CCFF 377* | RRFF 377 |
| 653 | RRFF 320* |  |
| 654 | ~ |  |
| 655 | RFF 182* | CCRF 182 |
| 656 | RFF 183 | CCRF 183 |
| 657 | $\sim$ |  |
| 658 | $\sim$ |  |
| 659 | RFF 123* | CCRF 123 |
| 660 | CCRF 123* |  |
| 661 | CCRF 123* |  |
| 662 | ~ |  |
| 663 | $\sim$ |  |
| 664 | $\sim$ |  |
| 665 | ~ |  |
| 666 | CCFF 367* | RRFF 367 |
| 667 | CCFF 368* | RRFF 368 |
| 668 | CCFF 369* | RRFF 369 |
| 669 | ~ |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 670 | CCRF 187* |  |
| 671 | RFF 187-88* | CCRF 187-88 |
| 672 | $\sim$ |  |
| 673 | RFF 149-50* | CCRF 149-50 |
| 674 | $\sim$ |  |
| 675 | RRFF 353* |  |
| 676 | RFF 151* | CCRF 151 |
| 677 | RFF 153* | CCRF 153 |
| 678 | RFF 157* | CCRF 157 |
| 679 | $\sim$ |  |
| 680 | CCRF 191* |  |
| 681 | CCRF 191* |  |
| 682 | CCRF 191* |  |
| 683 | RFF 234 | CCRF 234 |
| 684 | RFF 237 | CCRF 237 |
| 685 | $\sim$ |  |
| 686 | CCFF 433* | RRFF 433 |
| 687 | CCFF 433* | RRFF 433 |
| 688 | CCFF 433* | RRFF 433 |
| 689 | CCFF 434* | RRFF 434 |
| 690 | CCFF 434* | RRFF 434 |
| 691 | RFF 193 | CCRF 193 |
| 692 | RFF 194 | CCRF 194 |
| 693 | RFF 195 | CCRF 195 |
| 694 | RFF 196 | CCRF 196 |
| 695 | $\sim$ |  |
| 696 | RFF 240 | CCRF 240 |
| 697 | RFF 200* | CCRF 200 |
| 698 | $\sim$ |  |
| 699 | RFF 241* | CCRF 241 |
| 700 | ~ |  |
| 701 | $\sim$ |  |
| 702 | $\sim$ |  |
| 703 | CCFF 429* | RFF 429 |
| 704 | CCFF 428* | RFF 428 |
| 705 | $\sim$ |  |
| 706 | $\sim$ |  |
| 707 | $\sim$ |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 708 | RFF 257* | CCRF 257 |
| 709 | CCRF 257* |  |
| 710 | $\sim$ |  |
| 711 | RFF 243 | CCRF 243 |
| 712 | RFF 244 | CCRF 244 |
| 713 | RFF 245 | CCRF 245 |
| 714 | RFF 245* | CCRF 245 |
| 715 | RFF 246* | CCRF 246 |
| 716 | RFF 247 | CCRF 247 |
| 717 | RFF 247* | CCRF 247 |
| 718 | $\sim$ |  |
| 719 | $\sim$ |  |
| 720 | RRFF 320* |  |
| 721 | ~ |  |
| 722 | RRFF 320* |  |
| 723 | $\sim$ |  |
| 724 | $\sim$ |  |
| 725 | $\sim$ |  |
| 726 | $\sim$ |  |
| 727 | $\sim$ |  |
| 728 | $\sim$ |  |
| 729 | $\sim$ |  |
| 730 | CCFF 363* | RRFF 363 |
| 731 | $\sim$ |  |
| 732 | CCFF 408* | RRFF 408 |
| 733 | $\sim$ |  |
| 734 | $\sim$ |  |
| 735 | $\sim$ |  |
| 736 | $\sim$ |  |
| 737 | $\sim$ |  |
| 738 | $\sim$ |  |
| 739 | CCFF 362* | RRFF 362 |
| 740 | CCFF 202* | RRFF 202 |
| 741 | $\sim$ |  |
| 742 | $\sim$ |  |
| 743 | $\sim$ |  |
| 744 | CCRF 219* |  |
| 745 | $\sim$ |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 746 | $\sim$ |  |
| 747 | $\sim$ |  |
| 748 | $\sim$ |  |
| 749 | CCFF 320* | RRFF 320 |
| 750 | CCFF 320* | RRFF 320 |
| 751 | $\sim$ |  |
| 752 | $\sim$ |  |
| 753 | $\sim$ |  |
| 754 | RRFF 331* |  |
| 755 | $\sim$ |  |
| 756 | RFF 284 | CCRF 284 |
| 757 | RFF 285 | CCRF 285 |
| 758 | CCFF 335 | RRFF 335 |
| 759 | $\sim$ |  |
| 760 | $\sim$ |  |
| 761 | $\sim$ |  |
| 762 | $\sim$ |  |
| 763 | RRFF 339* |  |
| 764 | $\sim$ |  |
| 765 | CCFF 340* | RRFF 340 |
| 766 | $\sim$ |  |
| 767 | $\sim$ |  |
| 768 | $\sim$ |  |
| 769 | $\sim$ |  |
| 770 | $\sim$ |  |
| 771 | $\sim$ |  |
| 772 | RFF 219* | CCRF 219 |
| 773 | $\sim$ |  |
| 774 | RRFF 301* |  |
| 775 | RFF 275-78 | CCRF 275-78 |
| 776 | $\sim$ |  |
| 777 | RRFF 335* |  |
| 778 | RFF 285 | CCRF 285 |
| 779 | RFF 294 | CCRF 294 |
| 780 | RRFF 333* |  |
| 781 | RFF 427 | CCRF 427 |
| 782 | RFF 415* | CCRF 415 |
| 783 | CCFF 342* | RRFF 342 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 784 | $\begin{gathered} \hline \text { RFF 297*, 298*; } \\ \text { CCRF 297* } \\ \hline \end{gathered}$ |  |
| 785 | RFF 298* | CCRF 298 |
| 786 | RFF 468 | CCRF 468 |
| 787 | RFF 469 | CCRF 469 |
| 788 | RFF 470 | CCRF 470 |
| 789 | RFF 471 | CCRF 471 |
| 790 | RFF 472 | CCRF 472 |
| 791 | RFF 473 | CCRF 473 |
| 792 | RFF 474 | CCRF 474 |
| 793 | RFF 475 | CCRF 475 |
| 794 | RFF 476 | CCRF 476 |
| 795 | RFF 477 | CCRF 477 |
| 796 | RFF 478 | CCRF 478 |
| 797 | RFF 479-80 | CCRF 479-80 |
| 798 | RFF 481 | CCRF 481 |
| 799 | RFF 482 | CCRF 482 |
| 800 | RFF 484* | CCRF 484 |
| 801 | RFF 485* | CCRF 485 |
| 802 | RFF 486 | CCRF 486 |
| 803 | RFF 487 | CCRF 487 |
| 804 | RFF 488; CCRF 488 |  |
| 805 | RFF 489 | CCRF 489 |
| 806 | RFF 490 | CCRF 490 |
| 807 | RFF 491* | CCRF 491 |
| 808 | RFF 492; CCRF 492 |  |
| 809 | ~ |  |
| 810 | $\begin{gathered} \text { CCRF 769*; RFF } \\ 771^{*} \end{gathered}$ | CCRF 771 |
| 811 | RFF 497 | CCRF 497 |
| 812 | RFF 498 | CCRF 498 |
| 813 | RFF 499 | CCRF 499 |
| 814 | RFF 500 | CCRF 500 |
| 815 | RFF 501 | CCRF 501 |
| 816 | RFF 503 | CCRF 503 |
| 817 | RFF 504 | CCRF 504 |
| 818 | RFF 505 | CCRF 505 |
| 819 | RFF 506 | CCRF 506 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 820 | RFF 507 | CCRF 507 |
| 821 | RFF 508 | CCRF 508 |
| 822 | RFF 509 | CCRF 509 |
| 823 | RFF 510 | CCRF 510 |
| 824 | ~ |  |
| 825 | RRFF 312 |  |
| 826 | RFF 517 | CCRF 517 |
| 827 | RFF 518 | CCRF 518 |
| 828 | CCRF 519 |  |
| 829 | RFF 522 | CCRF 522 |
| 830 | RFF 523 | CCRF 523 |
| 831 | RFF 525 | CCRF 525 |
| 832 | RFF 526 | CCRF 526 |
| 833 | RFF 527 | CCRF 527 |
| 834 | RFF 528 | CCRF 528 |
| 835 | RFF 529 | CCRF 529 |
| 836 | RFF 530* | CCRF 530 |
| 837 | ~ |  |
| 838 | RFF 716* | CCRF 716 |
| 839 | RFF 530 | CCRF 530 |
| 840 | RFF 533 | CCRF 533 |
| 841 | RFF 534 | CCRF 534 |
| 842 | $\begin{gathered} \text { RFF 536*; CCRF } \\ 536^{*} \end{gathered}$ |  |
| 843 | CCRF 536* |  |
| 844 | CCRF 536 |  |
| 845 | CCRF 536* |  |
| 846 | $\begin{gathered} \text { CCRF 537*; CCRF } \\ 537^{*} \\ \hline \end{gathered}$ |  |
| 847 | CCRF 537* |  |
| 848 | RFF 538 | CCRF 538 |
| 849 | RFF 539* | CCRF 539 |
| 850 | RFF 539* | CCRF 539 |
| 851 | RFF 540 | CCRF 540 |
| 852 | RFF 541 | CCRF 541 |
| 853 | RFF 542 | CCRF 542 |
| 854 | RFF 543 | CCRF 543 |
| 855 | RFF 544 | CCRF 544 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 856 | RFF 547 | CCRF 547 |
| 857 | RFF 548 | CCRF 548 |
| 858 | $\sim$ |  |
| 859 | RFF 550 | CCRF 550 |
| 860 | RFF 551 | CCRF 551 |
| 861 | RFF 552 | CCRF 552 |
| 862 | RFF 553 | CCRF 553 |
| 863 | RFF 554 | CCRF 554 |
| 864 | RFF 555 | CCRF 555 |
| 865 | RFF 556 | CCRF 556 |
| 866 | RFF 557 | CCRF 557 |
| 867 | RFF 558 | CCRF 558 |
| 868 | RFF 559 | CCRF 559 |
| 869 | RFF 520 | CCRF 520 |
| 870 | RFF 521 | CCRF 521 |
| 871 | RFF 6*, 7*; CCRF 7* | CCRF 6 |
| 872 | $\sim$ |  |
| 873 | $\sim$ |  |
| 874 | RFF 560 | CCRF 560 |
| 875 | $\sim$ |  |
| 876 | $\sim$ |  |
| 877 | RFF 563 | CCRF 563 |
| 878 | RFF 564 | CCRF 564 |
| 879 | RFF 567 | CCRF 567 |
| 880 | RFF 568 | CCRF 568 |
| 881 | RFF 569 | CCRF 569 |
| 882 | RFF 571* | CCRF 571 |
| 883 | RFF 572 | CCRF 572 |
| 884 | RFF 574 | CCRF 574 |
| 885 | RFF 575 | CCRF 575 |
| 886 | RFF 576 | CCRF 576 |
| 887 | RFF 577 | CCRF 577 |
| 888 | RFF 578 | CCRF 578 |
| 889 | RFF 579 | CCRF 579 |
| 890 | RFF 580 | CCRF 580 |
| 891 | RFF 581 | CCRF 581 |
| 892 | RFF 582 | CCRF 582 |
| 893 | RFF 583 | CCRF 583 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 894 | RFF 584 | CCRF 584 |
| 895 | RFF 585 | CCRF 585 |
| 896 | RFF 586 | CCRF 586 |
| 897 | RFF 587 | CCRF 587 |
| 898 | RFF 588 | CCRF 588 |
| 899 | RFF 589 | CCRF 589 |
| 900 | RFF 592 | CCRF 592 |
| 901 | RFF 593 | CCRF 593 |
| 902 | ~ |  |
| 903 | $\sim$ |  |
| 904 | RFF 418 | CCRF 418 |
| 905 | RFF 423* | CCRF 423 |
| 906 | RFF 421 | CCRF 421 |
| 907 | RFF 424 | CCRF 424 |
| 908 | RFF 425 | CCRF 425 |
| 909 | RFF 426 | CCRF 426 |
| 910 | RFF 427 | CCRF 427 |
| 911 | RFF 429 | CCRF 429 |
| 912 | RFF 430 | CCRF 430 |
| 913 | RFF 431 | CCRF 431 |
| 914 | CCFF 758 | RRFF 758 |
| 915 | RRFF 833* |  |
| 916 | RRFF 833* |  |
| 917 | RRFF 833* |  |
| 918 | CCFF 834 | RRFF 834 |
| 919 | RFF 433 | CCRF 433 |
| 920 | RFF 434 | CCRF 434 |
| 921 | RFF 435 | CCRF 435 |
| 922 | RFF 436 | CCRF 436 |
| 923 | $\begin{gathered} \text { RFF 437*; CCRF } \\ 437^{*} \end{gathered}$ |  |
| 924 | RFF 438-39 | CCRF 438-39 |
| 925 | RFF 440 | CCRF 440 |
| 926 | RFF 441 | CCRF 441 |
| 927 | RFF 442 | CCRF 442 |
| 928 | RFF 443 | CCRF 443 |
| 929 | RFF 444 | CCRF 444 |
| 930 | RFF 448* | CCRF 448 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 931 | RFF 449 | CCRF 449 |
| 932 | RFF 450* | CCRF 450 |
| 933 | RFF 451 | CCRF 451 |
| 934 | RFF 452 | CCRF 452 |
| 935 | RFF 454* | CCRF 454 |
| 936 | RFF 456* | CCRF 456 |
| 937 | RFF 457 | CCRF 457 |
| 938 | RFF 460 | CCRF 460 |
| 939 | RFF 327 | CCRF 327 |
| 940 | RFF 328* | CCRF 328 |
| 941 | RFF 328* | CCRF 328 |
| 942 | RFF 329 | CCRF 329 |
| 943 | RFF 332 | CCRF 332 |
| 944 | RFF 333 | CCRF 333 |
| 945 | RFF 335 | CCRF 335 |
| 946 | RFF 336 | CCRF 336 |
| 947 | RFF 337 | CCRF 337 |
| 948 | RFF 338 | CCRF 338 |
| 949 | RFF 339* | CCRF 339 |
| 950 | RFF 340 | CCRF 340 |
| 951 | RFF 341 | CCRF 341 |
| 952 | RFF 343 | CCRF 343 |
| 953 | RFF 347* | CCRF 347 |
| 954 | ~ |  |
| 955 | RFF 349; CCRF 349 |  |
| 956 | RFF 350* | CCRF 350 |
| 957 | ~ |  |
| 958 | RFF 356 | CCRF 356 |
| 959 | RFF 361 | CCRF 361 |
| 960 | RFF 362 | CCRF 362 |
| 961 | RFF 363 | CCRF 363 |
| 962 | RFF 366 | CCRF 366 |
| 963 | RFF 371 | CCRF 371 |
| 964 | RFF 372* | CCRF 372 |
| 965 | RFF 379 | CCRF 379 |
| 966 | RFF 380 | CCRF 380 |
| 967 | CCFF 1214* | RRFF 1214 |
| 968 | RFF 398 | CCRF 398 |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 969 | RFF 399 | CCRF 399 |
| 970 | RFF 400 | CCRF 400 |
| 971 | RFF 401 | CCRF 401 |
| 972 | RFF 402 | CCRF 402 |
| 973 | RFF 403 | CCRF 403 |
| 974 | RFF 404 | CCRF 404 |
| 975 | RFF 405 | CCRF 405 |
| 976 | RFF 406 | CCRF 406 |
| 977 | RFF 407 | CCRF 407 |
| 978 | RFF 408 | CCRF 408 |
| 979 | RFF 410 | CCRF 410 |
| 980 | RFF 411 | CCRF 411 |
| 981 | RFF 412 | CCRF 412 |
| 982 | RFF 415 | CCRF 415 |
| 983 | CCFF 1718 | RRFF 1718 |
| 984 | CCFF 1720 | RRFF 1720 |
| 985 | CCFF 1721 | RRFF 1721 |
| 986 | RRFF 1720 |  |
| 987 | CCFF 1722 | RRFF 1722 |
| 988 | CCFF 1723 | RRFF 1723 |
| 989 | CCFF 1725 | RRFF 1725 |
| 990 | CCFF 1727 | RRFF 1727 |
| 991 | CCFF 1731 | RRFF 1731 |
| 992 | CCFF 1732 | RRFF 1732 |
| 993 | RRFF 1728* |  |
| 994 | CCFF 1733 | RRFF 1733 |
| 995 | CCFF 1737 | RRFF 1737 |
| 996 | CCFF 1734 | RRFF 1734 |
| 997 | CCFF 1735 | RRFF 1735 |
| 998 | CCFF 1739 | RRFF 1739 |
| 999 | CCFF 1740* | RRFF 1740 |
| 1000 | CCFF 1741 | RRFF 1741 |
| 1001 | CCFF 1742 | RRFF 1742 |
| 1002 | CCFF 1745 | RRFF 1745 |
| 1003 | CCFF 1746 | RRFF 1746 |
| 1004 | CCFF 1747 | RRFF 1747 |
| 1005 | CCFF 1748 | RRFF 1748 |
| 1006 | CCFF 1749 | RRFF 1749 |

[^1]| ALJ Finding | Based on | Corresponding <br> $\frac{\text { Reply Finding (if }}{\text { applicable) }}$ |
| :---: | :---: | :---: |
| 1007 | CCFF 1750 | RRFF 1750 |
| 1008 | CCFF 1752 | RRFF 1752 |
| 1009 | CCFF 1753*; RRFF <br> 1753* |  |
| 1010 | CCFF 2763 | RRFF 2763 |
| 1011 | CCFF 2767-68 | RRFF 2767-68 |
| 1012 | CCFF 2769* | RRFF 2769 |
| 1013 | CCFF 2787* | RRFF 2787 |
| 1014 | CCFF 2885 | RRFF 2885 |
| 1015 | RRFF 2788 |  |
| 1016 | CCFF 2890 | RRFF 2890 |
| 1017 | CCFF 2891-2893 | RRFF 2891-93 |
| 1018 | CCFF 2889* | RRFF 2889 |
| 1019 | CCFF 2900; RRFF |  |
| 1020 | CCFF 2913 | RRFF 2913 |
| 1021 | CCFF 2039* | RRFF 2039 |
| 1022 | CCFF 1951* | RRFF 1951 |
| 1023 | CCFF 1960 | RRFF 1960 |
| 1024 | CCFF 1962 | RRFF 1962 |
| 1025 | CCFF 1963 | RRFF 1963 |
| 1026 | CCFF 1965 | RRFF 1965 |
| 1027 | CCFF 1966 | RRFF 1966 |
| 1028 | CCFF 1967 | RRFF 1967 |
| 1029 | CCFF 1968 | RRFF 1968 |
| 1030 | RFF 1504 | CCRF 1504 |
| 1031 | RFF 1505 | CCRF 1505 |
| 1032 | RFF 1506 | CCRF 1506 |
| 1033 | RFF 1507 | CCRF 1507 |
| 1034 | RFF 1508 | CCRF 1508 |
| 1035 | RFF 1509 | CCRF 1509 |
| 1036 | RFF 1510 | CCRF 1510 |
| 1037 | RFF 1511 | CCRF 1511 |
| 1038 | RFF 1512 | CCRF 1512 |
| 1039 | RFF 1515 | CCRF 1515 |
| 1040 | RFF 1516 | CCRF 1516 |
| 1041 | RFF 1517 | CCRF 1517 |
| 1042 |  |  |
|  |  |  |
| 102 |  |  |

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| ALJ Finding | Based on | Corresponding <br> Reply Finding (if <br> applicable) |
| :---: | :---: | :---: |
| 1043 | RFF 1518 | CCRF 1518 |
| 1044 | RFF 1519 | CCRF 1519 |
| 1045 | RFF 1520 | CCRF 1520 |
| 1046 | RFF 1521 | CCRF 1521 |
| 1047 | RFF 1522 | CCRF 1522 |
| 1048 | RFF 1523 | CCRF 1523 |
| 1049 | RFF 1524 | CCRF 1524 |
| 1050 | RFF 1525 | CCRF 1525 |
| 1051 | RFF 1526 | CCRF 1526 |
| 1052 | RFF 1532 | CCRF 1532 |
| 1053 | RFF 1533 | CCRF 1533 |
| 1054 | RFF 1534 | CCRF 1532 |
| 1055 | RFF 1537 | CCRF 1537 |
| 1056 | RFF 1539 | CCRF 1539 |
| 1057 | RFF 1540 | CCRF 1540 |
| 1058 | RFF 1541 | CCRF 1541 |
| 1059 | RFF 1542 | CCRF 1542 |
| 1060 | RFF 1543 | CCRF 1543 |
| 1061 | RFF 1544 | CCRF 1544 |
| 1062 | RFF 1545 | CCRF 1545 |
| 1063 | RFF 1546 | CCRF 1546 |
| 1064 | RFF 105* | CCRF 105 |
| 1065 | RFF 458 | CCRF 458 |
| 1066 | RFF 1442* | CCRF 1442 |
| 1067 | RFF 1443 | CCRF 1443 |
| 1068 | RFF 1444 | CCRF 1444 |
| 1069 | RFF 1442* | CCRF 1442 |
| 1070 | RFF 1446 | CCRF 1446 |
| 1071 | RFF 1447 | CCRF 1447 |
| 1072 | RFF 1435 | CCRF 1435 |
| 1073 | RFF 1436 | CCRF 1436 |
| 1074 | RFF 1437* | CCRF 1437 |
| 1075 | RFF 91 | CCRF 91 |
| 1076 | RFF 92* | CCRF 92 |
| 1077 | RFF 92* | CCRF 92 |
| 1078 | RFF 93 | CCRF 93 |
| 1079 | RFF 94 | CCRF 94 |
| 1080 | RFF 95 | CCRF 95 |
|  |  |  |
| 102 |  |  |

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| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1081 | RFF 96 | CCRF 96 |
| 1082 | RFF 97 | CCRF 97 |
| 1083 | RFF 99; CCRF 99 |  |
| 1084 | RFF 101 | CCRF 101 |
| 1085 | RFF 103 | CCRF 103 |
| 1086 | RFF 1441* | CCRF 1441 |
| 1087 | RFF 1440 | CCRF 1440 |
| 1088 | RFF 1448 | CCRF 1448 |
| 1089 | RFF 1449; CCRF <br> 1449 |  |
| 1090 | RFF 1450 | CCRF 1450 |
| 1091 | RFF 1452 | CCRF 1452 |
| 1092 | RFF 1453 | CCRF 1453 |
| 1093 | RFF 1454* | CCRF 1454 |
| 1094 | RFF 1455 | CCRF 1455 |
| 1095 | RFF 1456 | CCRF 1456 |
| 1096 | RFF 1459 | CCRF 1459 |
| 1097 | RFF 1460 | CCRF 1460 |
| 1098 | RFF 1461 | CCRF 1461 |
| 1099 | RFF 1462 | CCRF 1462 |
| 1100 | RFF 1463 | CCRF 1463 |
| 1101 | RFF 1464 | CCRF 1464 |
| 1102 | RFF 1465 | CCRF 1465 |
| 1103 | RFF 1466 | CCRF 1466 |
| 1104 | RFF 1467 | CCRF 1467 |
| 1105 | $\begin{gathered} \text { RFF 1468; CCRF } \\ 726 \end{gathered}$ | CCRF 1468 |
| 1106 | $\begin{gathered} \text { RFF 1470; CCRF } \\ 1470 \end{gathered}$ |  |
| 1107 | RFF 1471 | CCRF 1471 |
| 1108 | RFF 1473* | CCRF 1473 |
| 1109 | RFF 1474 | CCRF 1474 |
| 1110 | $\begin{gathered} \text { RFF 1476; CCRF } \\ 1476 \end{gathered}$ |  |
| 1111 | RFF 1477 | CCRF 1477 |
| 1112 | RFF 1478 | CCRF 1478 |
| 1113 | RFF 1479 | CCRF 1479 |
| 1114 | RFF 1480 | CCRF 1480 |
| 1115 | RFF 1482 | CCRF 1482 |

Key
CCFF: Complaint Counsel Proposed Findings of Fact
CCRF: Complaint Counsel Reply Findings of Fact
RFF: Respondant Proposed Finding of Fact
RRFF: Respondant Reply Finding of Fact
~: does not clearly correspond to proposed finding from either party
*: contains portion or is similar to proposed finding

| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1116 | RFF 1483 | CCRF 1483 |
| 1117 | RFF 1484 | CCRF 1484 |
| 1118 | RFF 1485 | CCRF 1485 |
| 1119 | RFF 1487; CCRF 1487 |  |
| 1120 | RFF 1488 | CCRF 1488 |
| 1121 | RFF 1489 | CCRF 1489 |
| 1122 | $\begin{gathered} \text { RFF 1490*; RFF } \\ \text { 1493* } \end{gathered}$ | $\begin{gathered} \text { CCRF 1490; CCRF } \\ 1493 \end{gathered}$ |
| 1123 | RFF 1494 | CCRF 1494 |
| 1124 | RFF 1495 | CCRF 1495 |
| 1125 | RFF 1497 | CCRF 1497 |
| 1126 | RFF 1498* | CCRF 1498 |
| 1127 | RFF 1498* | CCRF 1498 |
| 1128 | RFF 786 | CCRF 786 |
| 1129 | RFF 787 | CCRF 787 |
| 1130 | RFF 788 | CCRF 788 |
| 1131 | RFF 790 | CCRF 790 |
| 1132 | RFF 791 | CCRF 791 |
| 1133 | RFF 792 | CCRF 792 |
| 1134 | RFF 793 | CCRF 793 |
| 1135 | RFF 809 | CCRF 809 |
| 1136 | RFF 810 | CCRF 810 |
| 1137 | RFF 813 | CCRF 813 |
| 1138 | RFF 814 | CCRF 814 |
| 1139 | RFF 815 | CCRF 815 |
| 1140 | RFF 816 | CCRF 816 |
| 1141 | RFF 817 | CCRF 817 |
| 1142 | RFF 818 | CCRF 818 |
| 1143 | RFF 819* | CCRF 819 |
| 1144 | RFF 819* | CCRF 819 |
| 1145 | RFF 820 | CCRF 820 |
| 1146 | RFF 821 | CCRF 821 |
| 1147 | RFF 822 | CCRF 822 |
| 1148 | RFF 823 | CCRF 823 |
| 1149 | RFF 824 | CCRF 824 |
| 1150 | RFF 825 | CCRF 825 |
| 1151 | RFF 826 | CCRF 826 |

Key
CCFF: Complaint Counsel Proposed Findings of Fact
CCRF: Complaint Counsel Reply Findings of Fact
RFF: Respondant Proposed Finding of Fact
RRFF: Respondant Reply Finding of Fact
$\sim$ : does not clearly correspond to proposed finding from either party
*: contains portion or is similar to proposed finding

| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1152 | RFF 827 | CCRF 827 |
| 1153 | RFF 828 | CCRF 828 |
| 1154 | RFF 829 | CCRF 829 |
| 1155 | RFF 830 | CCRF 830 |
| 1156 | RFF 831 | CCRF 831 |
| 1157 | RFF 832 | CCRF 832 |
| 1158 | RFF 833 | CCRF 833 |
| 1159 | RFF 834 | CCRF 834 |
| 1160 | RFF 835 | CCRF 835 |
| 1161 | RFF 836 | CCRF 836 |
| 1162 | RFF 837 | CCRF 837 |
| 1163 | RFF 838 | CCRF 838 |
| 1164 | RFF 839 | CCRF 839 |
| 1165 | RFF 840 | CCRF 840 |
| 1166 | RFF 843 | CCRF 843 |
| 1167 | RFF 844 | CCRF 844 |
| 1168 | RFF 845 | CCRF 845 |
| 1169 | RFF 846 | CCRF 846 |
| 1170 | RFF 847 | CCRF 847 |
| 1171 | RFF 848 | CCRF 848 |
| 1172 | RFF 850 | CCRF 850 |
| 1173 | RFF 851 | CCRF 851 |
| 1174 | RFF 852 | CCRF 852 |
| 1175 | RFF 853 | CCRF 853 |
| 1176 | RFF 854 | CCRF 854 |
| 1177 | RFF 855 | CCRF 855 |
| 1178 | RFF 856 | CCRF 856 |
| 1179 | RFF 859 | CCRF 859 |
| 1180 | RFF 860 | CCRF 860 |
| 1181 | RFF 861 | CCRF 861 |
| 1182 | RFF 862 | CCRF 862 |
| 1183 | RFF 863 | CCRF 863 |
| 1184 | RFF 865 | CCRF 865 |
| 1185 | RFF 866 | CCRF 866 |
| 1186 | RFF 867 | CCRF 867 |
| 1187 | RFF 868 | CCRF 868 |
| 1188 | RFF 871 | CCRF 871 |
| 1189 | RFF 872 | CCRF 872 |

[^2]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1190 | RFF 873 | CCRF 873 |
| 1191 | RFF 874 | CCRF 874 |
| 1192 | RFF 875 | CCRF 875 |
| 1193 | RFF 876 | CCRF 876 |
| 1194 | RFF 877 | CCRF 877 |
| 1195 | RFF 878 | CCRF 878 |
| 1196 | RFF 879 | CCRF 879 |
| 1197 | RFF 880 | CCRF 880 |
| 1198 | RFF 881 | CCRF 881 |
| 1199 | RFF 882 | CCRF 882 |
| 1200 | RFF 883 | CCRF 883 |
| 1201 | RFF 884 | CCRF 884 |
| 1202 | RFF 887 | CCRF 887 |
| 1203 | RFF 889 | CCRF 889 |
| 1204 | RFF 890 | CCRF 890 |
| 1205 | RFF 891 | CCRF 891 |
| 1206 | RFF 892 | CCRF 892 |
| 1207 | RFF 895 | CCRF 895 |
| 1208 | RFF 896 | CCRF 896 |
| 1209 | RFF 897 | CCRF 897 |
| 1210 | RFF 898 | CCRF 898 |
| 1211 | RFF 899 | CCRF 899 |
| 1212 | RFF 900 | CCRF 900 |
| 1213 | RFF 901 | CCRF 901 |
| 1214 | RFF 902 | CCRF 902 |
| 1215 | RFF 903 | CCRF 903 |
| 1216 | RFF 904 | CCRF 904 |
| 1217 | RFF 907 | CCRF 907 |
| 1218 | RFF 908 | CCRF 908 |
| 1219 | RFF 909 | CCRF 909 |
| 1220 | RFF 910 | CCRF 910 |
| 1221 | RFF 911 | CCRF 911 |
| 1222 | RFF 912 | CCRF 912 |
| 1223 | RFF 913 | CCRF 913 |
| 1224 | RFF 914 | CCRF 914 |
| 1225 | RFF 916 | CCRF 916 |
| 1226 | RFF 917 | CCRF 917 |
| 1227 | RFF 918 | CCRF 918 |

[^3]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1228 | RFF 919 | CCRF 919 |
| 1229 | RFF 920 | CCRF 920 |
| 1230 | RFF 921 | CCRF 921 |
| 1231 | RFF 922 | CCRF 922 |
| 1232 | RFF 925 | CCRF 925 |
| 1233 | RFF 926 | CCRF 926 |
| 1234 | RFF 928 | CCRF 928 |
| 1235 | RFF 929 | CCRF 929 |
| 1236 | RFF 930 | CCRF 930 |
| 1237 | RFF 931 | CCRF 931 |
| 1238 | RFF 932 | CCRF 932 |
| 1239 | RFF 933 | CCRF 933 |
| 1240 | RFF 936 | CCRF 936 |
| 1241 | RFF 937 | CCRF 937 |
| 1242 | RFF 938 | CCRF 937 |
| 1243 | RFF 940 | CCRF 940 |
| 1244 | RFF 941 | CCRF 941 |
| 1245 | RFF 942 | CCRF 942 |
| 1246 | RFF 943 | CCRF 943 |
| 1247 | RFF 946 | CCRF 946 |
| 1248 | RFF 947 | CCRF 947 |
| 1249 | RFF 950 | CCRF 950 |
| 1250 | RFF 951 | CCRF 951 |
| 1251 | RFF 952 | CCRF 952 |
| 1252 | RFF 953 | CCRF 953 |
| 1253 | RFF 954 | CCRF 954 |
| 1254 | RFF 955 | CCRF 955 |
| 1255 | RFF 956 | CCRF 956 |
| 1256 | RFF 957 | CCRF 957 |
| 1257 | RFF 958 | CCRF 958 |
| 1258 | RFF 962 | CCRF 962 |
| 1259 | RFF 963 | CCRF 963 |
| 1260 | RFF 969 | CCRF 969 |
| 1261 | RFF 970 | CCRF 970 |
| 1262 | RFF 971 | CCRF 971 |
| 1263 | RFF 972 | CCRF 972 |
| 1264 | RFF 973 | CCRF 973 |
| 1265 | RFF 974 | CCRF 974 |

[^4]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1266 | RFF 975 | CCRF 975 |
| 1267 | RFF 976 | CCRF 976 |
| 1268 | RFF 977 | CCRF 977 |
| 1269 | RFF 978 | CCRF 978 |
| 1270 | RFF 979 | CCRF 979 |
| 1271 | RFF 980 | CCRF 980 |
| 1272 | RFF 981 | CCRF 981 |
| 1273 | RFF 982 | CCRF 982 |
| 1274 | RFF 983 | CCRF 983 |
| 1275 | RFF 984 | CCRF 984 |
| 1276 | RFF 985 | CCRF 985 |
| 1277 | RFF 986 | CCRF 986 |
| 1278 | RFF 987 | CCRF 987 |
| 1279 | RFF 988 | CCRF 988 |
| 1280 | RFF 990 | CCRF 990 |
| 1281 | RFF 991 | CCRF 991 |
| 1282 | RFF 994 | CCRF 994 |
| 1283 | RFF 995 | CCRF 995 |
| 1284 | RFF 996 | CCRF 996 |
| 1285 | RFF 997 | CCRF 997 |
| 1286 | RFF 1000 | CCRF 1000 |
| 1287 | RFF 1002 | CCRF 1002 |
| 1288 | RFF 1003 | CCRF 1003 |
| 1289 | RFF 1004 | CCRF 1004 |
| 1290 | RFF 1005 | CCRF 1005 |
| 1291 | RFF 1006 | CCRF 1006 |
| 1292 | RFF 1007 | CCRF 1007 |
| 1293 | RFF 1010 | CCRF 1010 |
| 1294 | RFF 1011* | CCRF 1011 |
| 1295 | RFF 1011* | CCRF 1011 |
| 1296 | RFF 1012* | CCRF 1012 |
| 1297 | RFF 1012* | CCRF 1012 |
| 1298 | RFF 1013 | CCRF 1013 |
| 1299 | RFF 1014 | CCRF 1014 |
| 1300 | RFF 1015 | CCRF 1015 |
| 1301 | RFF 1017 | CCRF 1017 |
| 1302 | RFF 1018 | CCRF 1018 |
| 1303 | RFF 1019 | CCRF 1019 |

[^5]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1304 | RFF 1020 | CCRF 1020 |
| 1305 | RFF 1021 | CCRF 1021 |
| 1306 | RFF 1022 | CCRF 1022 |
| 1307 | RFF 1025 | CCRF 1025 |
| 1308 | RFF 1026 | CCRF 1026 |
| 1309 | RFF 1027 | CCRF 1027 |
| 1310 | RFF 1028 | CCRF 1028 |
| 1311 | RFF 1029 | CCRF 1029 |
| 1312 | RFF 1030 | CCRF 1030 |
| 1313 | RFF 1031 | CCRF 1031 |
| 1314 | RFF 1032 | CCRF 1032 |
| 1315 | RFF 1033 | CCRF 1033 |
| 1316 | RFF 1034 | CCRF 1034 |
| 1317 | RFF 1035 | CCRF 1035 |
| 1318 | RFF 1038 | CCRF 1038 |
| 1319 | RFF 1039 | CCRF 1039 |
| 1320 | RFF 1040 | CCRF 1040 |
| 1321 | RFF 1041 | CCRF 1041 |
| 1322 | RFF 1042 | CCRF 1042 |
| 1323 | RFF 1045 | CCRF 1045 |
| 1324 | RFF 1046 | CCRF 1046 |
| 1325 | RFF 1047 | CCRF 1047 |
| 1326 | RFF 1048 | CCRF 1048 |
| 1327 | RFF 1049 | CCRF 1049 |
| 1328 | RFF 1050 | CCRF 1050 |
| 1329 | RFF 1051 | CCRF 1051 |
| 1330 | RFF 1052 | CCRF 1052 |
| 1331 | RFF 1054 | CCRF 1054 |
| 1332 | RFF 1055 | CCRF 1055 |
| 1333 | RFF 1056 | CCRF 1056 |
| 1334 | RFF 1057 | CCRF 1057 |
| 1335 | RFF 1058 | CCRF 1058 |
| 1336 | RFF 1060 | CCRF 1060 |
| 1337 | RFF 1062 | CCRF 1062 |
| 1338 | RFF 1063 | CCRF 1063 |
| 1339 | RFF 1064 | CCRF 1064 |
| 1340 | RFF 1065 | CCRF 1065 |
| 1341 | RFF 1066 | CCRF 1066 |

[^6]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1342 | RFF 1067 | CCRF 1067 |
| 1343 | RFF 1070 | CCRF 1070 |
| 1344 | RFF 1071 | CCRF 1071 |
| 1345 | RFF 1073 | CCRF 1073 |
| 1346 | RFF 1074 | CCRF 1074 |
| 1347 | RFF 1075 | CCRF 1075 |
| 1348 | RFF 1076 | CCRF 1076 |
| 1349 | RFF 1077 | CCRF 1077 |
| 1350 | RFF 1078 | CCRF 1078 |
| 1351 | RFF 1079 | CCRF 1079 |
| 1352 | RFF 1080 | CCRF 1080 |
| 1353 | RFF 1081 | CCRF 1081 |
| 1354 | RFF 1082 | CCRF 1082 |
| 1355 | RFF 1083 | CCRF 1083 |
| 1356 | RFF 1084 | CCRF 1084 |
| 1357 | RFF 1085 | CCRF 1085 |
| 1358 | RFF 1086 | CCRF 1086 |
| 1359 | RFF 1089 | CCRF 1089 |
| 1360 | RFF 1090 | CCRF 1090 |
| 1361 | RFF 1091 | CCRF 1091 |
| 1362 | RFF 1094 | CCRF 1094 |
| 1363 | RFF 1095 | CCRF 1095 |
| 1364 | RFF 1096 | CCRF 1096 |
| 1365 | RFF 1098 | CCRF 1098 |
| 1366 | RFF 1099 | CCRF 1099 |
| 1367 | RFF 1100 | CCRF 1100 |
| 1368 | RFF 1101 | CCRF 1101 |
| 1369 | RFF 1102 | CCRF 1102 |
| 1370 | RFF 1103 | CCRF 1103 |
| 1371 | RFF 1106 | CCRF 1106 |
| 1372 | RFF 1107 | CCRF 1107 |
| 1373 | RFF 1108 | CCRF 1108 |
| 1374 | RFF 1109 | CCRF 1109 |
| 1375 | RFF 1110 | CCRF 1110 |
| 1376 | RFF 1111* | CCRF 1111 |
| 1377 | RFF 1111* | CCRF 1111 |
| 1378 | RFF 1112 | CCRF 1112 |
| 1379 | RFF 1113 | CCRF 1113 |

[^7]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1380 | RFF 1114 | CCRF 1114 |
| 1381 | RFF 1115 | CCRF 1115 |
| 1382 | RFF 1118 | CCRF 1118 |
| 1383 | RFF 1119 | CCRF 1119 |
| 1384 | RFF 1120 | CCRF 1120 |
| 1385 | CCFF 2411 | RRFF 2411 |
| 1386 | RRFF 2411 |  |
| 1387 | RRFF 2411 |  |
| 1388 | RFF 1125 | CCRF 1125 |
| 1389 | RFF 1126 | CCRF 1126 |
| 1390 | RFF 1127 | CCRF 1127 |
| 1391 | RFF 1128 | CCRF 1128 |
| 1392 | RFF 1129 | CCRF 1129 |
| 1393 | RFF 1130 | CCRF 1130 |
| 1394 | RFF 1131 | CCRF 1131 |
| 1395 | RFF 1132 | CCRF 1132 |
| 1396 | RFF 1133 | CCRF 1133 |
| 1397 | RFF 1134 | CCRF 1134 |
| 1398 | RFF 1135 | CCRF 1135 |
| 1399 | RFF 1136 | CCRF 1136 |
| 1400 | RFF 1137 | CCRF 1137 |
| 1401 | RFF 1138* | CCRF 1138 |
| 1402 | RFF 1139 | CCRF 1139 |
| 1403 | RFF 1148-1149 | CCRF 1148-49 |
| 1404 | RFF 1150 | CCRF 1150 |
| 1405 | RFF 1151 | CCRF 1151 |
| 1406 | RFF 1152 | CCRF 1152 |
| 1407 | RFF 1153 | CCRF 1153 |
| 1408 | RFF 1154 | CCRF 1154 |
| 1409 | RFF 1155 | CCRF 1155 |
| 1410 | RFF 1156 | CCRF 1156 |
| 1411 | RFF 1157* | CCRF 1157 |
| 1412 | RFF 1157* | CCRF 1157 |
| 1413 | RFF 1158 | CCRF 1158 |
| 1414 | RFF 1159* | CCRF 1159 |
| 1415 | RFF 1159* | CCRF 1159 |
| 1416 | RFF 1160 | CCRF 1160 |
| 1417 | RFF 1161 | CCRF 1161 |

[^8]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1418 | RFF 1162 | CCRF 1162 |
| 1419 | RFF 1163 | CCRF 1163 |
| 1420 | RFF 1165 | CCRF 1165 |
| 1421 | RFF 1166 | CCRF 1166 |
| 1422 | RFF 1167 | CCRF 1167 |
| 1423 | RFF 1168 | CCRF 1168 |
| 1424 | RFF 1169 | CCRF 1169 |
| 1425 | RFF 1170 | CCRF 1170 |
| 1426 | RFF 1172* | CCRF 1172 |
| 1427 | RFF 1173 | CCRF 1173 |
| 1428 | RFF 1174 | CCRF 1174 |
| 1429 | RFF 1175 | CCRF 1175 |
| 1430 | RFF 1176 | CCRF 1176 |
| 1431 | RFF 1177 | CCRF 1177 |
| 1432 | RFF 1179 | CCRF 1179 |
| 1433 | RFF 1180 | CCRF 1180 |
| 1434 | RFF 1181 | CCRF 1181 |
| 1435 | RFF 1184 | CCRF 1184 |
| 1436 | RFF 1186 | CCRF 1186 |
| 1437 | RFF 1187 | CCRF 1187 |
| 1438 | RFF 1188 | CCRF 1188 |
| 1439 | RFF 1189 | CCRF 1189 |
| 1440 | RFF 1191 | CCRF 1191 |
| 1441 | RFF 1192 | CCRF 1192 |
| 1442 | RFF 1193 | CCRF 1193 |
| 1443 | RFF 1194 | CCRF 1194 |
| 1444 | RFF 1195 | CCRF 1195 |
| 1445 | RFF 1196 | CCRF 1196 |
| 1446 | RFF 1197 | CCRF 1197 |
| 1447 | RFF 1198 | CCRF 1198 |
| 1448 | RFF 1199 | CCRF 1199 |
| 1449 | RFF 1200 | CCRF 1200 |
| 1450 | RFF 1201 | CCRF 1201 |
| 1451 | RFF 1203 | CCRF 1203 |
| 1452 | RFF 1204 | CCRF 1204 |
| 1453 | RFF 1207 | CCRF 1207 |
| 1454 | RFF 1208 | CCRF 1208 |
| 1455 | RFF 1213 | CCRF 1213 |

[^9]| ALJ Finding | Based on | Corresponding <br> Reply Finding (if <br> applicable) |
| :---: | :---: | :---: |
| 1456 | RFF 1210 | CCRF 1210 |
| 1457 | RFF 1211 | CCRF 1211 |
| 1458 | RFF 1212 | CCRF 1212 |
| 1459 | RFF 1213 | CCRF 1213 |
| 1460 | RFF 1214 | CCRF 1214 |
| 1461 | RFF 1215 | CCRF 1215 |
| 1462 | RFF 1216 | CCRF 1216 |
| 1463 | RFF 1217 | CCRF 1217 |
| 1464 | RFF 1219* | CCRF 1219 |
| 1465 | RFF 1219* | CCRF 1219 |
| 1466 | RFF 1220 | CCRF 1220 |
| 1467 | RFF 1221 | CCRF 1221 |
| 1468 | RFF 1223 | CCRF 1223 |
| 1469 | RFF 1225 | CCRF 1225 |
| 1470 | RFF 1226 | CCRF 1226 |
| 1471 | RFF 1227 | CCRF 1227 |
| 1472 | RFF 1228 | CCRF 1228 |
| 1473 | RFF 1229 | CCRF 1229 |
| 1474 | RFF 1230 | CCRF 1230 |
| 1475 | RFF 1231 | CCRF 1231 |
| 1476 | RFF 1232 | CCRF 1232 |
| 1477 | RFF 1233 | CCRF 1233 |
| 1478 | RFF 1234 | CCRF 1234 |
| 1479 | RFF 1235 | CCRF 1235 |
| 1480 | RFF 1238 | CCRF 1238 |
| 1481 | RFF 1239 | CCRF 1239 |
| 1482 | RFF 1240 | CCRF 1240 |
| 1483 | RFF 1243* | CCRF 1243 |
| 1484 | RFF 1243* | CCRF 1243 |
| 1485 | RFF 1244 | CCRF 1244 |
| 1486 | RFF 724 | CCRF 724 |
| 1487 | RFF 725 | CCRF 725 |
| 1488 | RFF 726 | CCRF 726 |
| 1489 | RFF 727 | CCRF 727 |
| 1490 | RFF 728 | CCRF 728 |
| 1491 | RFF 730 | CCRF 730 |
| 1492 | CCFF 3230 | RRFF 3230 |
| 1493 | RFF 740 | CCRF 740 |
|  |  |  |
| 103 |  |  |

[^10]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1494 | RFF 741 | CCRF 741 |
| 1495 | RFF 734 | CCRF 734 |
| 1496 | RFF 735 | CCRF 735 |
| 1497 | RFF 736 | CCRF 736 |
| 1498 | RFF 737 | CCRF 737 |
| 1499 | RFF 738 | CCRF 738 |
| 1500 | RFF 747 | CCRF 747 |
| 1501 | RFF 748 | CCRF 748 |
| 1502 | RFF 742 | CCRF 742 |
| 1503 | RFF 743 | CCRF 743 |
| 1504 | RFF 744 | CCRF 744 |
| 1505 | RFF 749 | CCRF 749 |
| 1506 | RFF 750 | CCRF 750 |
| 1507 | RFF 751 | CCRF 751 |
| 1508 | RFF 752 | CCRF 752 |
| 1509 | RFF 753 | CCRF 753 |
| 1510 | RFF 755 | CCRF 755 |
| 1511 | RFF 756 | CCRF 756 |
| 1512 | RFF 757 | CCRF 757 |
| 1513 | RFF 758 | CCRF 758 |
| 1514 | RFF 759 | CCRF 759 |
| 1515 | RFF 760 | CCRF 760 |
| 1516 | RFF 761 | CCRF 761 |
| 1517 | RFF 762 | CCRF 762 |
| 1518 | RFF 763 | CCRF 763 |
| 1519 | $\sim$ |  |
| 1520 | $\sim$ |  |
| 1521 | RFF 766* | CCRF 766 |
| 1522 | RFF 766* | CCRF 766 |
| 1523 | RFF 769 | CCRF 769 |
| 1524 | RFF 770 | CCRF 770 |
| 1525 | RFF 771 | CCRF 771 |
| 1526 | RFF 772 | CCRF 772 |
| 1527 | RFF 773 | CCRF 773 |
| 1528 | RFF 774 | CCRF 774 |
| 1529 | RFF 775 | CCRF 775 |
| 1530 | RFF 776 | CCRF 776 |
| 1531 | RFF 777 | CCRF 777 |

[^11]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1532 | RFF 778 | CCRF 778 |
| 1533 | RFF 779 | CCRF 779 |
| 1534 | RFF 780 | CCRF 780 |
| 1535 | RFF 781 | CCRF 781 |
| 1536 | RFF 1365 | CCRF 1365 |
| 1537 | RFF 1366 | CCRF 1366 |
| 1538 | RFF 1367 | CCRF 1367 |
| 1539 | RFF 1368 | CCRF 1368 |
| 1540 | RFF 1369 | CCRF 1369 |
| 1541 | RFF 1370 | CCRF 1370 |
| 1542 | RFF 1372 | CCRF 1372 |
| 1543 | RFF 1373 | CCRF 1373 |
| 1544 | RFF 1374 | CCRF 1374 |
| 1545 | RFF 1375 | CCRF 1375 |
| 1546 | RFF 1377* | CCRF 1377 |
| 1547 | RFF 1377* | CCRF 1377 |
| 1548 | RFF 1378 | CCRF 1378 |
| 1549 | RFF 1379 | CCRF 1379 |
| 1550 | RFF 1380 | CCRF 1380 |
| 1551 | RFF 1381 | CCRF 1381 |
| 1552 | RFF 1382 | CCRF 1382 |
| 1553 | RFF 1383 | CCRF 1383 |
| 1554 | RFF 1384 | CCRF 1384 |
| 1555 | RFF 1385 | CCRF 1385 |
| 1556 | RFF 1386 | CCRF 1386 |
| 1557 | RFF 1392 | CCRF 1392 |
| 1558 | RFF 1393 | CCRF 1393 |
| 1559 | RFF 1395 | CCRF 1395 |
| 1560 | RFF 1396 | CCRF 1396 |
| 1561 | RFF 1398 | CCRF 1398 |
| 1562 | RFF 1399 | CCRF 1399 |
| 1563 | RFF 1400 | CCRF 1400 |
| 1564 | RFF 1402 | CCRF 1402 |
| 1565 | RFF 1403 | CCRF 1403 |
| 1566 | RFF 1404 | CCRF 1404 |
| 1567 | $\sim$ |  |
| 1568 | RFF 1406 | CCRF 1406 |
| 1569 | RFF 1407 | CCRF 1407 |

[^12]| ALJ Finding | Based on | Corresponding <br> Reply Finding (if <br> applicable) |
| :---: | :---: | :---: |
| 1570 | RFF 1408 | CCRF 1408 |
| 1571 | RFF 1409 | CCRF 1409 |
| 1572 | RFF 1410 | CCRF 1410 |
| 1573 | RFF 1411 | CCRF 1411 |
| 1574 | RFF 1412 | CCRF 1412 |
| 1575 | RFF 1415 | CCRF 1415 |
| 1576 | RFF 1416 | CCRF 1416 |
| 1577 | RFF 1417 | CCRF 1417 |
| 1578 | RFF 1418 | CCRF 1418 |
| 1579 | RFF 1419 | CCRF 1419 |
| 1580 | RFF 1420 | CCRF 1420 |
| 1581 | RFF 1421 | CCRF 1421 |
| 1582 | RFF 1260 | CCRF 1260 |
| 1583 | RFF 1261 | CCRF 1261 |
| 1584 | RFF 1262 | CCRF 1262 |
| 1585 | RFF 1263 | CCRF 1263 |
| 1586 | RFF 1268 | CCRF 1268 |
| 1587 | RFF 1269 | CCRF 1269 |
| 1588 | RFF 1270 | CCRF 1270 |
| 1589 | RFF 1271 | CCRF 1271 |
| 1590 | RFF 1272 | CCRF 1272 |
| 1591 | RFF 1273 | CCRF 1273 |
| 1592 | RFF 1274 | CCRF 1274 |
| 1593 | RFF 1275 | CCRF 1275 |
| 1594 | RFF 1276 | CCRF 1276 |
| 1595 | RFF 1277 | CCRF 1277 |
| 1596 | RFF 1279 | CCRF 1279 |
| 1597 | RFF 1280 | CCRF 1280 |
| 1598 | RFF 1281 | CCRF 1281 |
| 1599 | RFF 1282 | CCRF 1282 |
| 1600 | RFF 1283 | CCRF 1283 |
| 1601 | RFF 1284 | CCRF 1284 |
| 1602 | RFF 1285 | CCRF 1285 |
| 1603 | RFF 1286 | CCRF 1286 |
| 1604 | RFF 1288 | CCRF 1288 |
| 1605 | RFF 1289 | CCRF 1289 |
| 1606 | RFF 1290 | CCRF 1290 |
| 1607 | RFF 1291 | CCRF 1291 |
|  |  |  |
| 102 |  |  |

[^13]| ALJ Finding | Based on | Corresponding Reply Finding (if applicable) |
| :---: | :---: | :---: |
| 1608 | RFF 1292 | CCRF 1292 |
| 1609 | RFF 1293 | CCRF 1293 |
| 1610 | RFF 1294 | CCRF 1294 |
| 1611 | RFF 1295 | CCRF 1295 |
| 1612 | RFF 1296 | CCRF 1296 |
| 1613 | RFF 1297 | CCRF 1297 |
| 1614 | RFF 1298 | CCRF 1298 |
| 1615 | RFF 1299 | CCRF 1299 |
| 1616 | RFF 1300 | CCRF 1300 |
| 1617 | RFF 1301 | CCRF 1301 |
| 1618 | RFF 1302 | CCRF 1302 |
| 1619 | RFF 1303 | CCRF 1303 |
| 1620 | RFF 1304 | CCRF 1304 |
| 1621 | RFF 1305 | CCRF 1305 |
| 1622 | RFF 1306 | CCRF 1306 |
| 1623 | RFF 1307 | CCRF 1307 |
| 1624 | RFF 1309 | CCRF 1309 |
| 1625 | RFF 1311 | CCRF 1311 |
| 1626 | RFF 1312 | CCRF 1312 |
| 1627 | RFF 1313 | CCRF 1313 |
| 1628 | RFF 1314 | CCRF 1314 |
| 1629 | RFF 1315 | CCRF 1315 |
| 1630 | RFF 1316 | CCRF 1316 |
| 1631 | RFF 1317 | CCRF 1317 |
| 1632 | RFF 1318 | CCRF 1318 |
| 1633 | RFF 1319 | CCRF 1319 |
| 1634 | RFF 1320 | CCRF 1320 |
| 1635 | RFF 1321 | CCRF 1321 |
| 1636 | RFF 1322 | CCRF 1322 |
| 1637 | RFF 1323 | CCRF 1323 |
| 1638 | RFF 1324 | CCRF 1324 |
| 1639 | RFF 1325 | CCRF 1325 |
| 1640 | RFF 1326 | CCRF 1326 |
| 1641 | RFF 1327 | CCRF 1327 |
| 1642 | RFF 1328 | CCRF 1328 |
| 1643 | RFF 1329 | CCRF 1329 |
| 1644 | RFF 1331 | CCRF 1331 |
| 1645 | RFF 1332 | CCRF 1332 |

[^14]| ALJ Finding | Based on | $\frac{\text { Corresponding }}{\text { Reply Finding (if }}$ <br> applicable) |
| :---: | :---: | :---: |
| 1646 | RFF 1334 | CCRF 1334 |
| 1647 | RFF 1335 | CCRF 1335 |
| 1648 | RFF 1336 | CCRF 1336 |
| 1649 | RFF 1337 | CCRF 1337 |
| 1650 | RFF 1338 | CCRF 1338 |
| 1651 | RFF 1339 | CCRF 1339 |
| 1652 | RFF 1340 | CCRF 1340 |
| 1653 | RFF 1341 | CCRF 1341 |
| 1654 | RFF 1342 | CCRF 1342 |
| 1655 | RFF 1343 | CCRF 1343 |
| 1656 | RFF 1344 | CCRF 1344 |
| 1657 | RFF 1345 | CCRF 1345 |
| 1658 | RFF 1346 | CCRF 1346 |
| 1659 | RFF 1348 | CCRF 1348 |
| 1660 | RFF 1349 | CCRF 1349 |
| 1661 | RFF 1350 | CCRF 1350 |
| 1662 | RFF 1351 | CCRF 1351 |
| 1663 | RFF 1352 | CCRF 1352 |
| 1664 | RFF 1353 | CCRF 1353 |
| 1665 | RFF 1354 | CCRF 1354 |

Key
CCFF: Complaint Counsel Proposed Findings of Fact
CCRF: Complaint Counsel Reply Findings of Fact
RFF: Respondant Proposed Finding of Fact
RRFF: Respondant Reply Finding of Fact
$\sim$ : does not clearly correspond to proposed finding from either party
*: contains portion or is similar to proposed finding


[^0]:    1 The information in this Witness Summary Index is substantially similar to the information found in the Joint Witness Index, which was filed pursuant to 16 C.F.R. § 3.46 on September 5, 2003.

[^1]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^2]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
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    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^3]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
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    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^4]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
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    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^5]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
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    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^6]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^7]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^8]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^9]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^10]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^11]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
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    RFF: Respondant Proposed Finding of Fact
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    ~: does not clearly correspond to proposed finding from either party
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[^12]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
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    *: contains portion or is similar to proposed finding

[^13]:    Key
    CCFF: Complaint Counsel Proposed Findings of Fact
    CCRF: Complaint Counsel Reply Findings of Fact
    RFF: Respondant Proposed Finding of Fact
    RRFF: Respondant Reply Finding of Fact
    ~: does not clearly correspond to proposed finding from either party
    *: contains portion or is similar to proposed finding

[^14]:    Key
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