



# Improvements to PJM Manual 14 Series

Revised 14A: “New Services Request Process”  
New 14G: “Generation Interconnection Requests”

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Presented to Planning Committee  
July 12, 2018

- Current Manual 14A **mixes** the process for application as a new service customer for any customer type with specific ‘generator’ customer interconnection requirements.
- Separate PJM Manual exists for ‘Upgrade and Transmission Customers’ (Manual 14E).
- No separate PJM Manual exists for the ‘**generator**’ customers specifically.

## Revise 14A: “**New Services Request Process**”

General application, study, and agreement process for interconnecting **any** customer type.

## Create New M14G: “**Generation Interconnection Requests**”

Application process, interconnection requirements, study/agreement process, and rights for **generator** customers.

**M14A content will be preserved**



# Manual 14A and 14G Language Updates

**Old M14A, Table 2-2-1 (Revised M14A, Table 5.2.1-1):**  
**“System Impact Study costs”**

Correction to the System Impact Study Cost table (consistent with Tariff):

Table 5.2.1-1: System Impact Study costs

Project size	Required deposit		Portion of deposit that is non-refundable	Maximum deposit
	Fixed portion	Per MW Portion		
> 20MW	None	\$500/MW	10%	\$300,000
>2MW and ≤ 20MW	\$10,000	None	10%	\$10,000
≤ 2MW	\$5000	None	10%	\$5,000

## Old M14A, Section 2.1.2 (Revised M14A, Section 2.2.1)

### “Interconnection (New Services) Requests and PJM Queue Position”

Queue window periods have been updated considering the “transitional queue” (*which occurred between November 1, 2016 and March 31, 2017*) is completed.

- The first queue window closes March 31<sup>st</sup> of the calendar year.
- The second queue window closes on September 30<sup>th</sup> of the same calendar year.
- Reference to “transitional queue” from November 1, 2016 to March 31, 2017 will be removed.

**Old M14A, Section 3.1.4 (New M14G, Section 5.4.1):**

**“Expedited and/or Combined Study Analysis”**

Updated language more specifically defines the conditions under which an accelerated analysis is not possible:

- If a secondary POI is requested to be considered, then a combined study is not possible.
- If the project is identified as needing stability analyses, light load analysis or causes or contributes to a system overload or is expected to contribute to winter analysis violations, then it cannot be accelerated.





# Appendix:

## M14A Content Transfer

# Transfer of Content from Current M14A:

## Section 1: Interconnection Process Overview

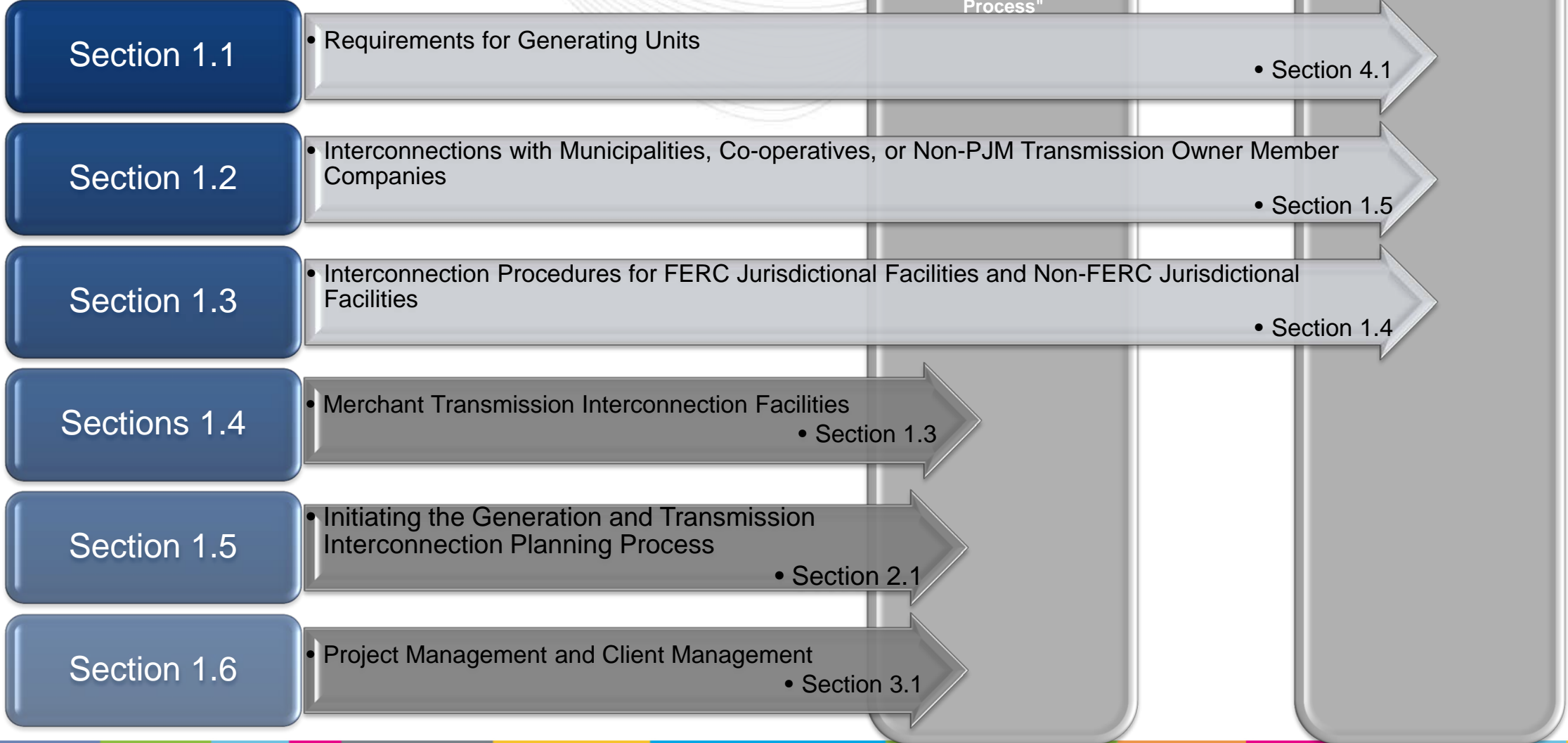


# Section 1: Interconnection Process Overview

Existing Manual 14A "New Services Request Process"

Modified Manual 14A "New Services Request Process"

New Manual 14G "Generation Interconnection Requests"



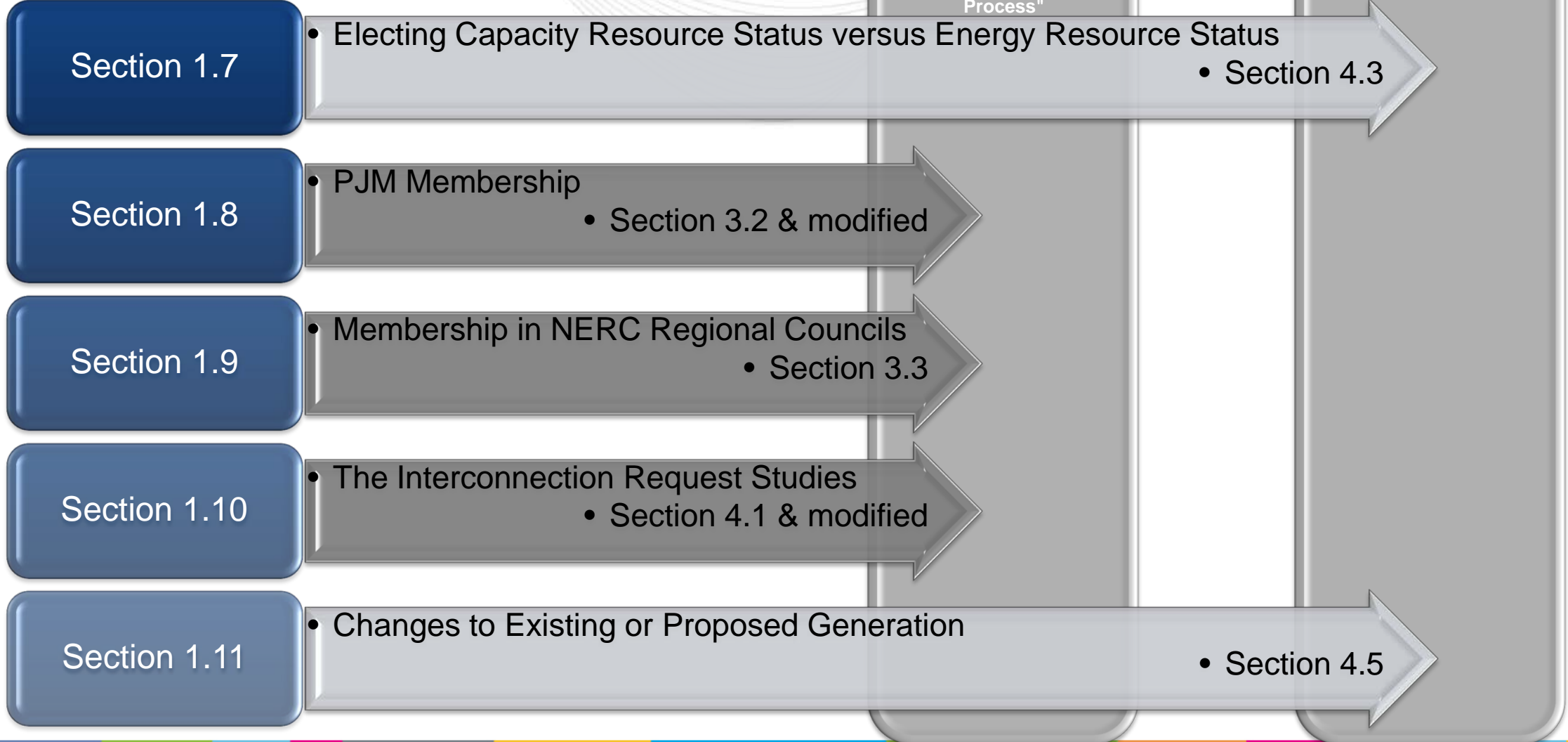


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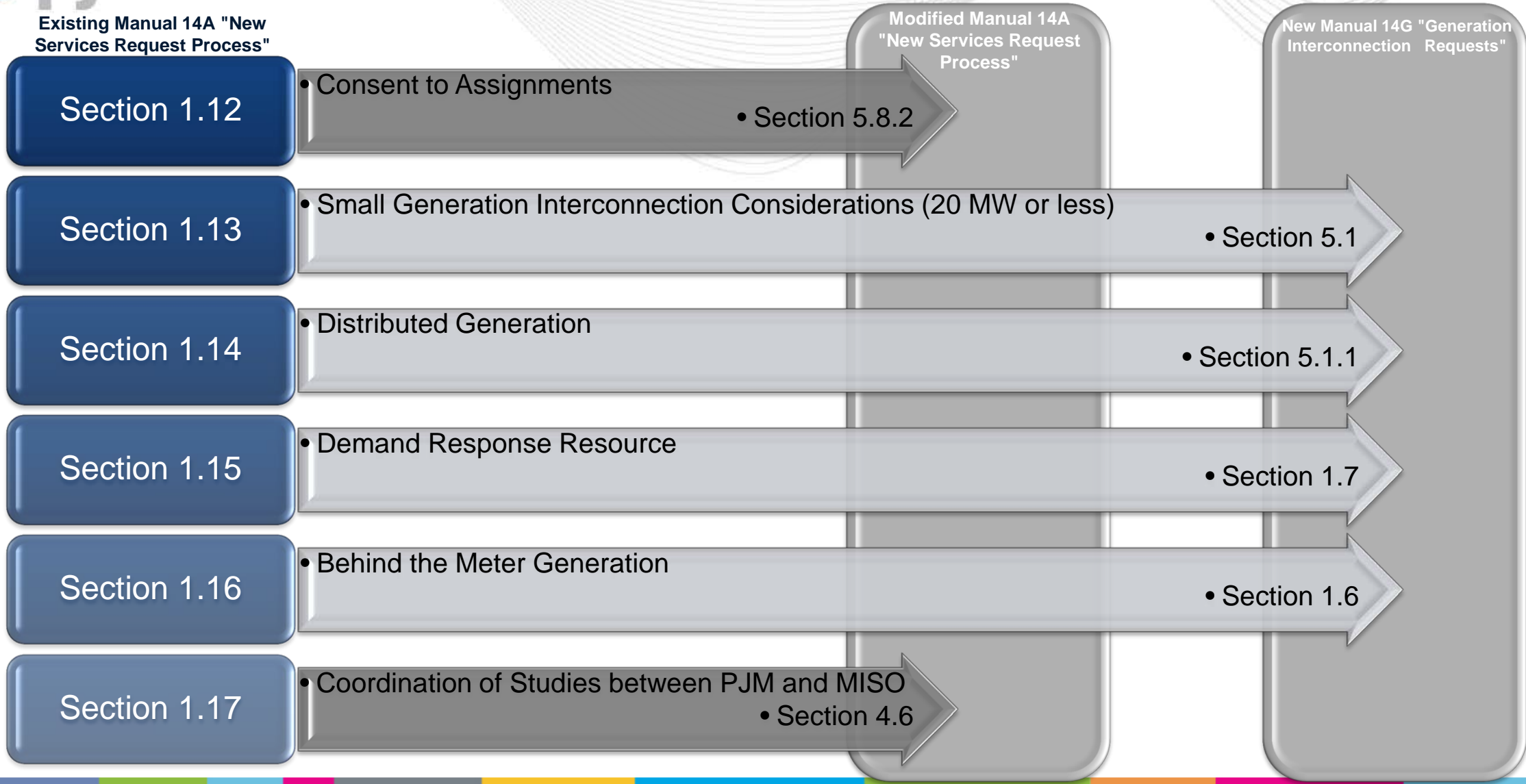
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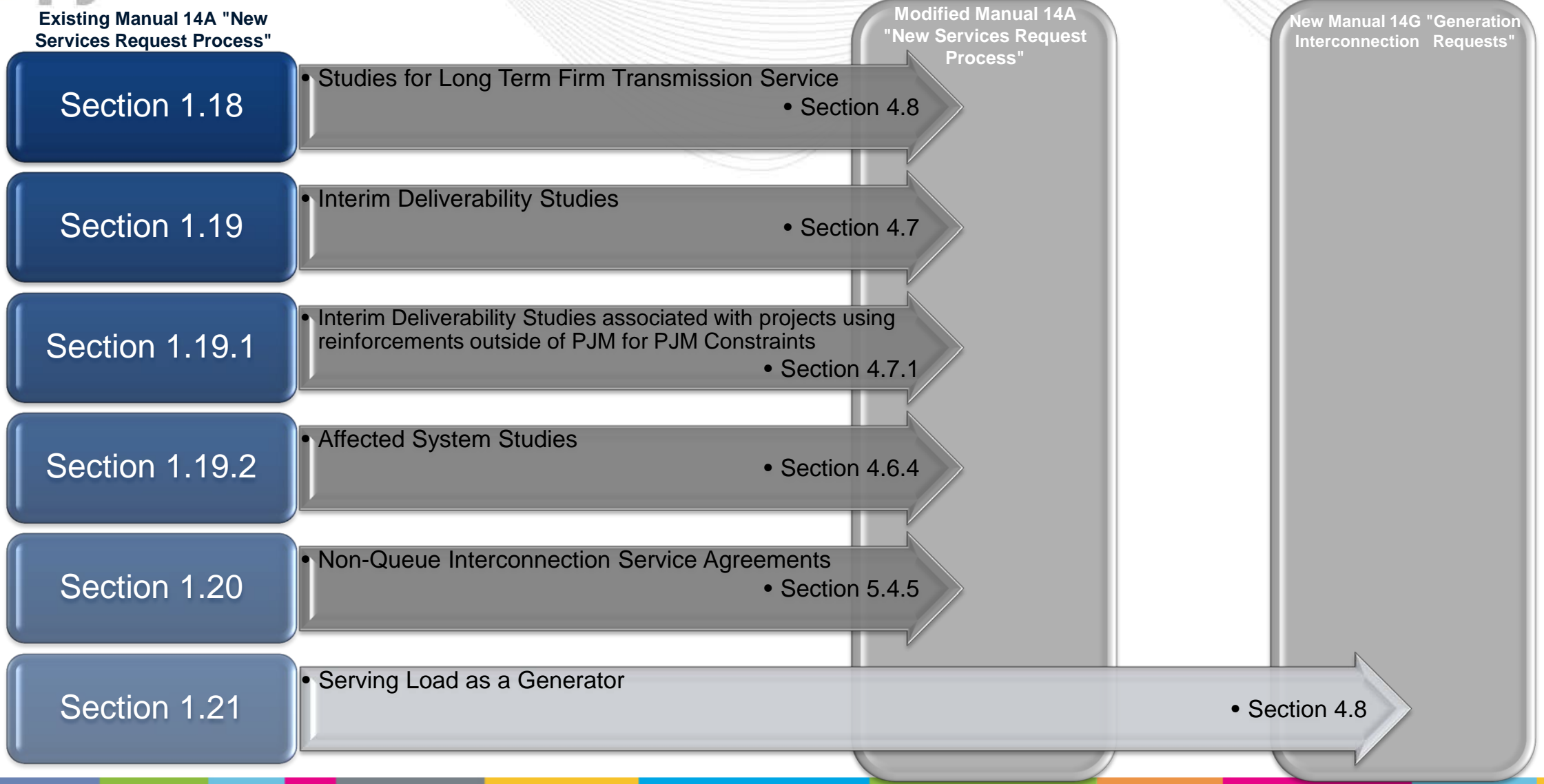


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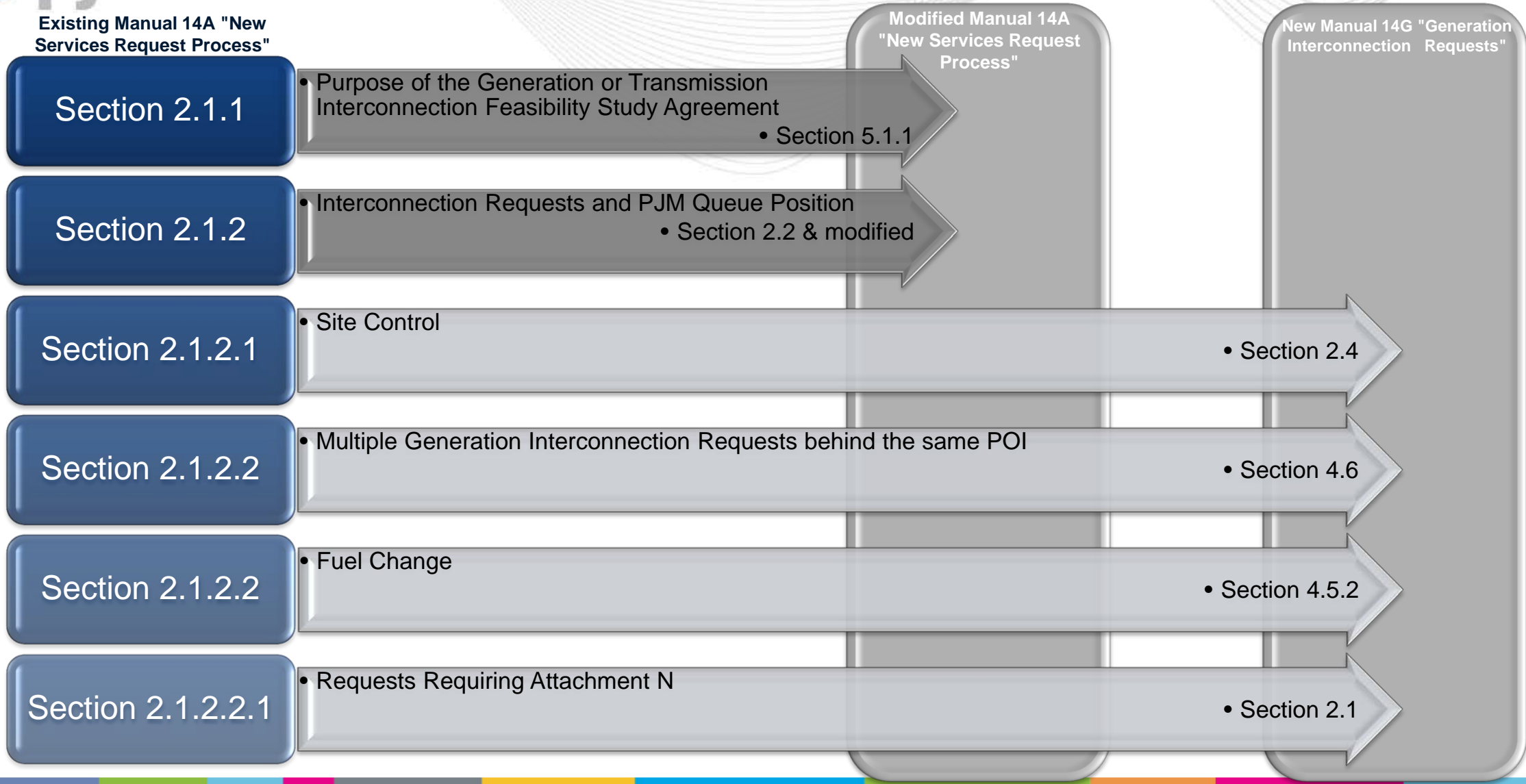


# Transfer of Content from Current M14A:

## Section 2: Generation and Transmission Interconnection Planning Process



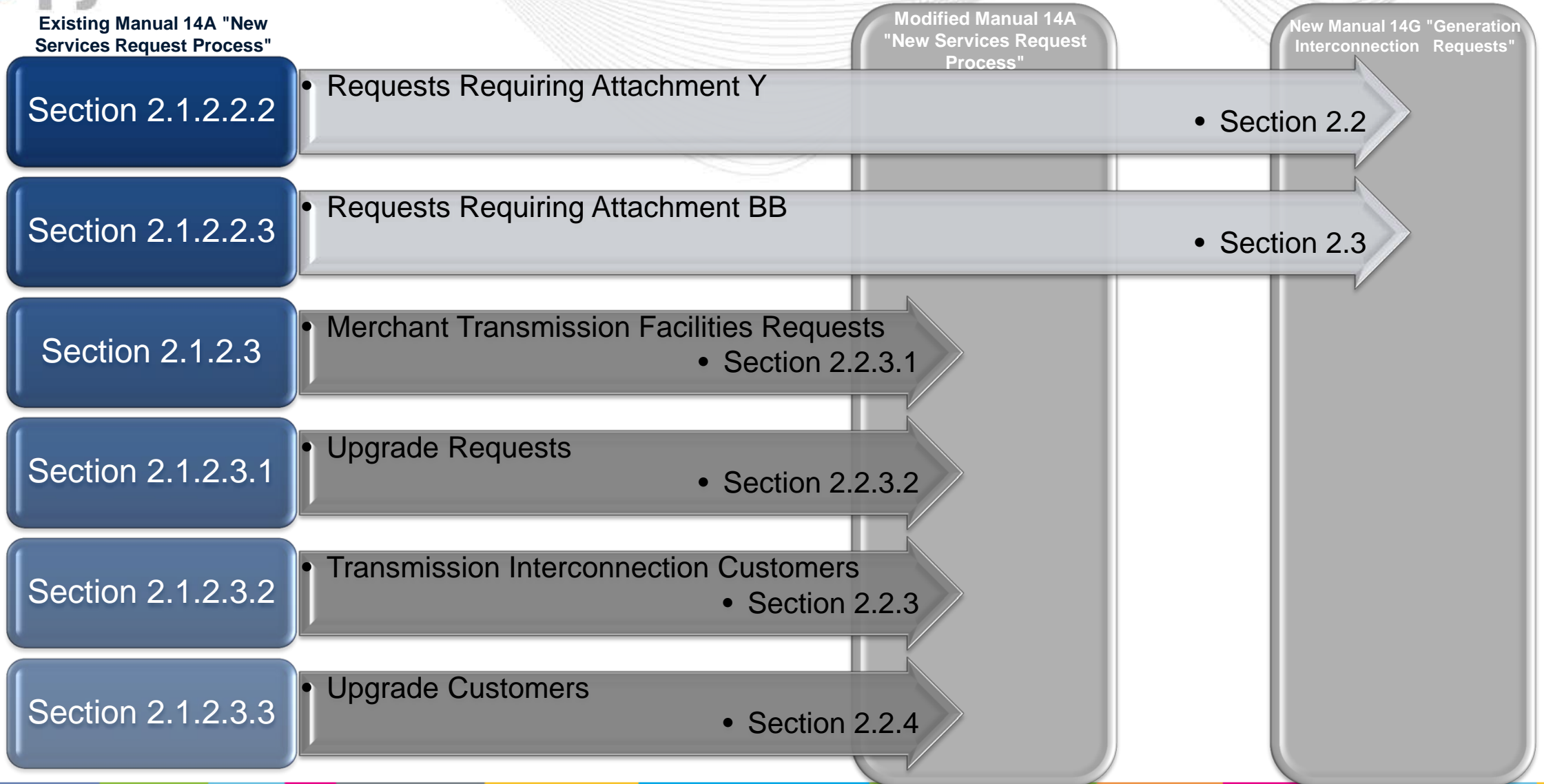
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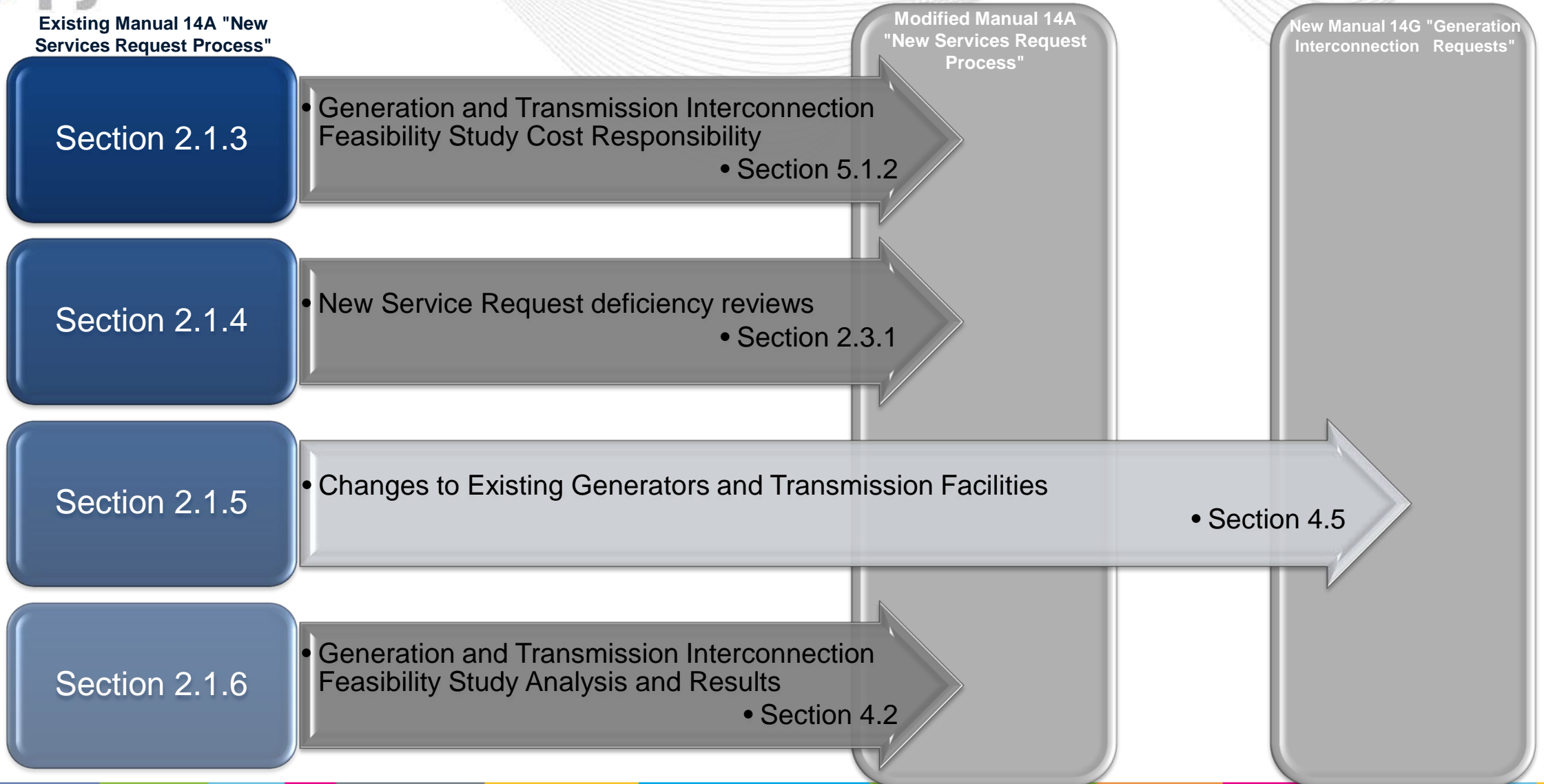




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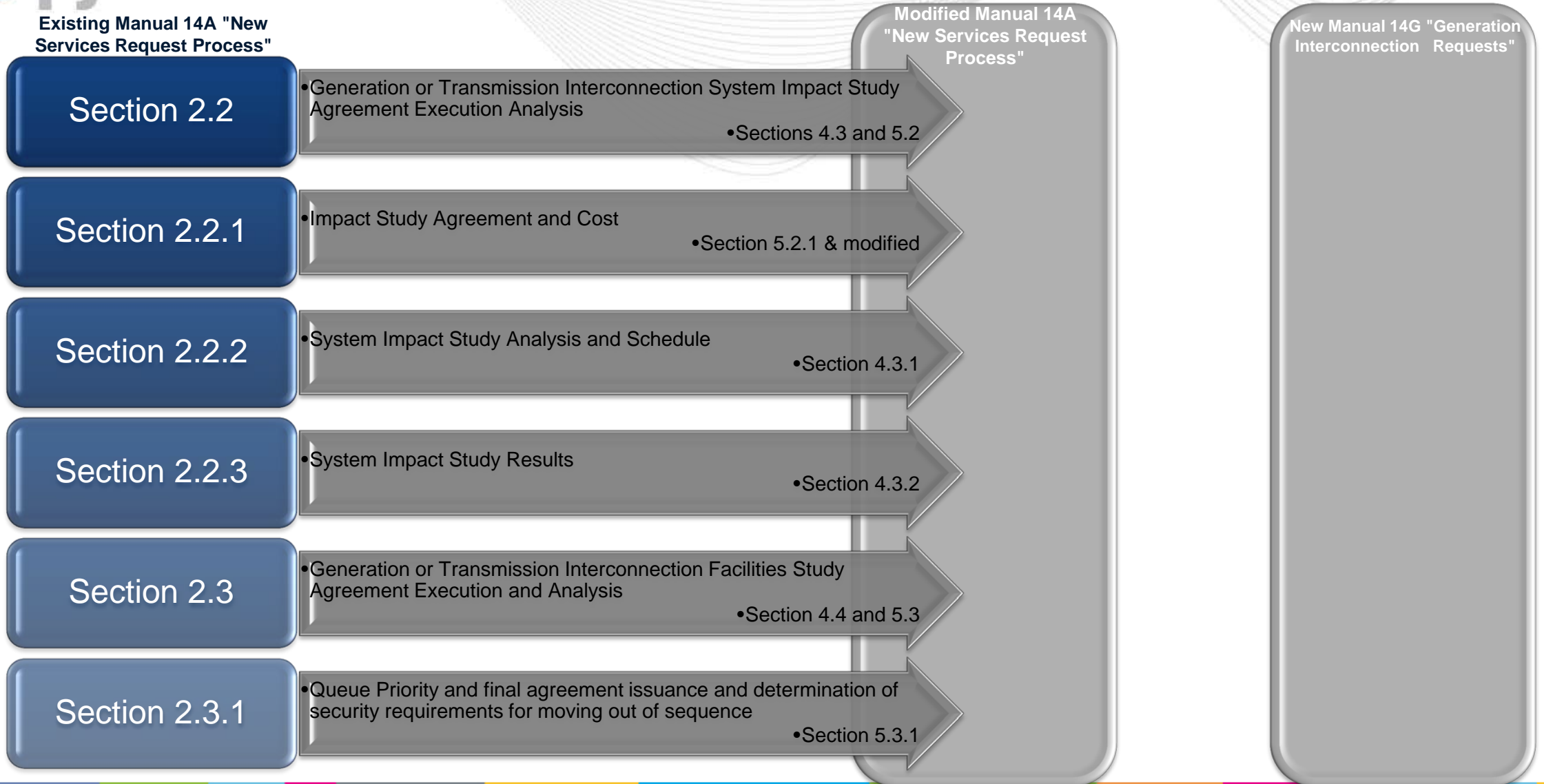


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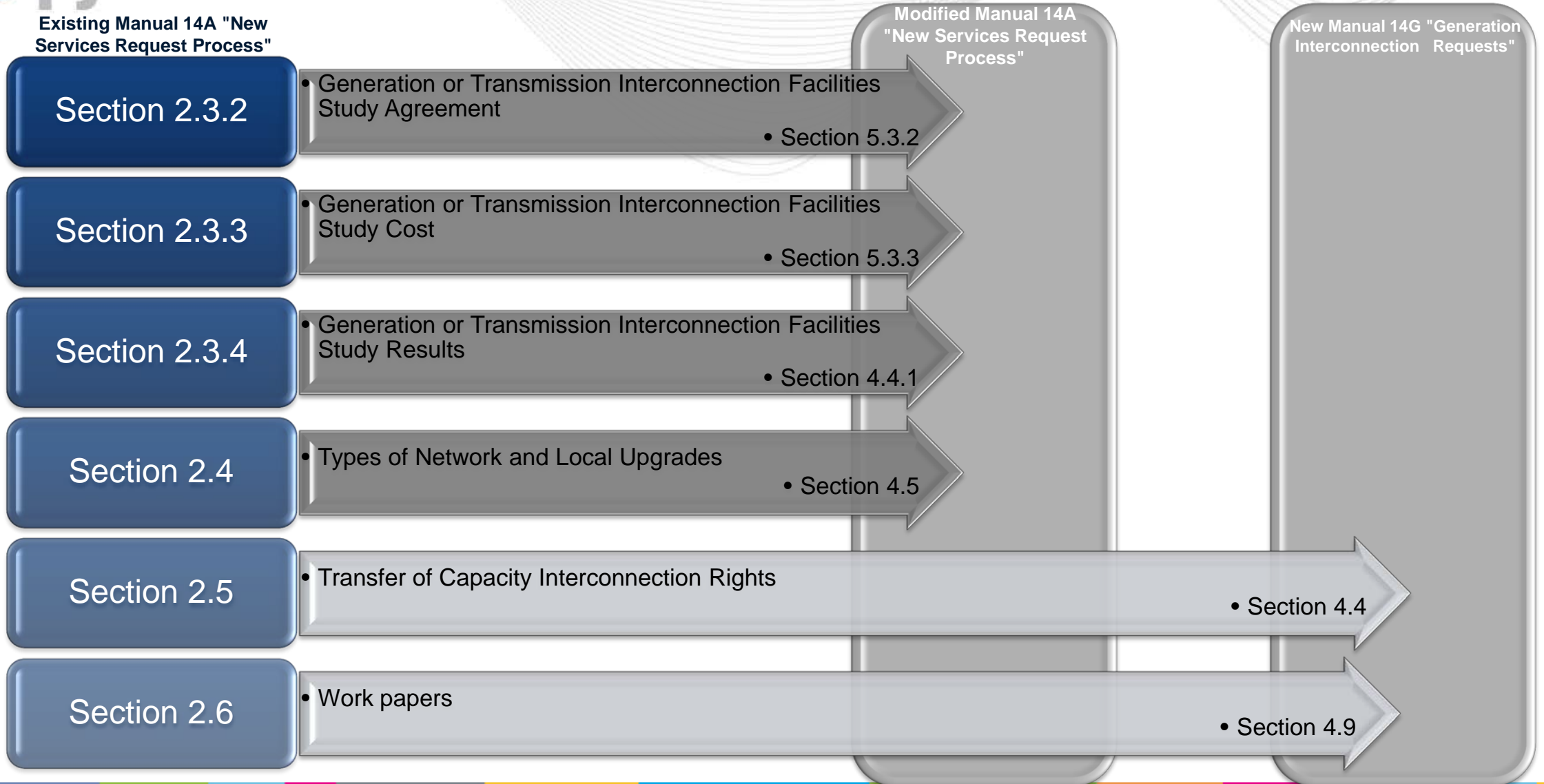




# Section 2: Generation and Transmission Interconnection Planning Process



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# Transfer of Content from Current M14A:

## Section 3: Small Resource Interconnection Process

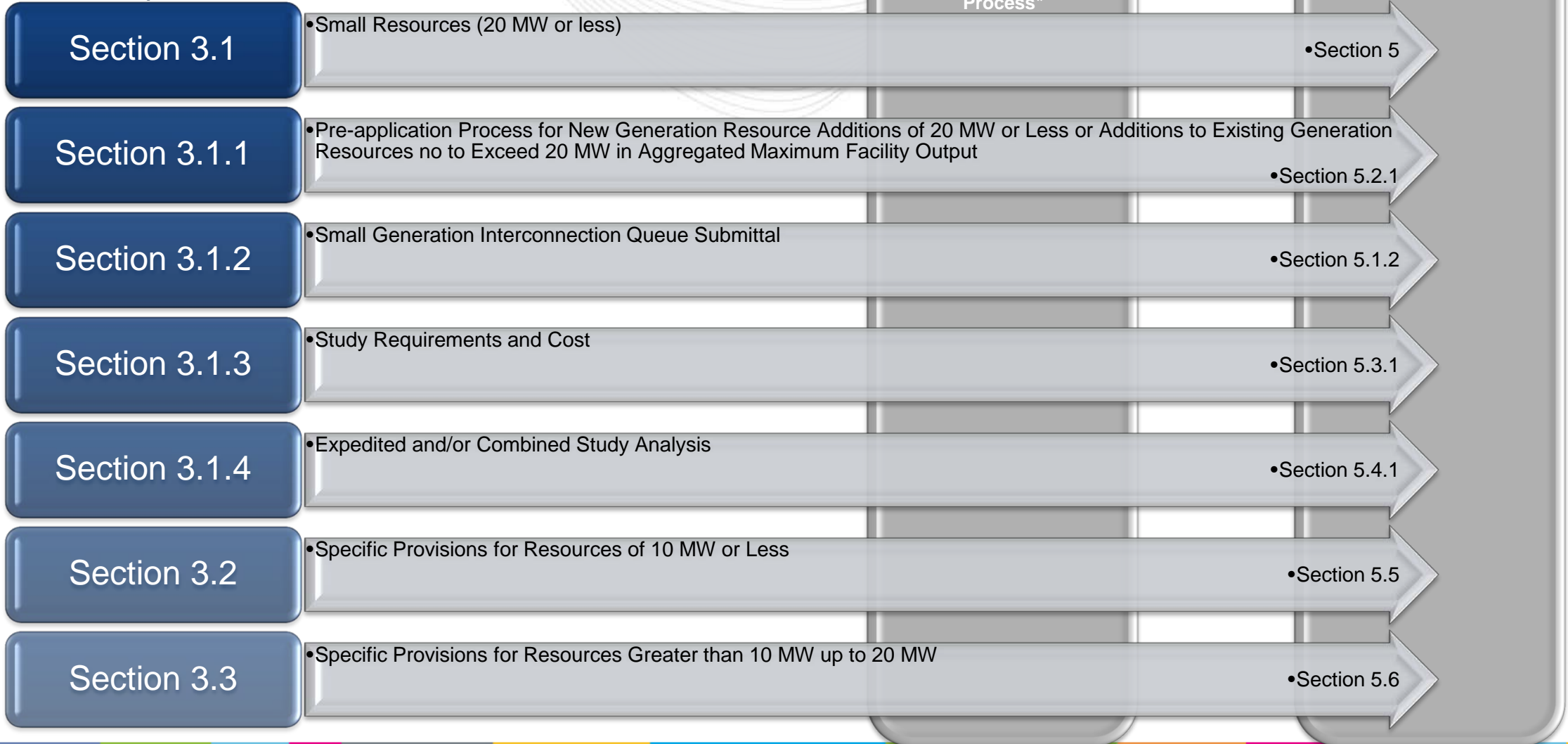


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# Transfer of Content from Current M14A:

## Section 4: Interconnection Service Agreement and Construction Service Agreement Execution and Other Agreements

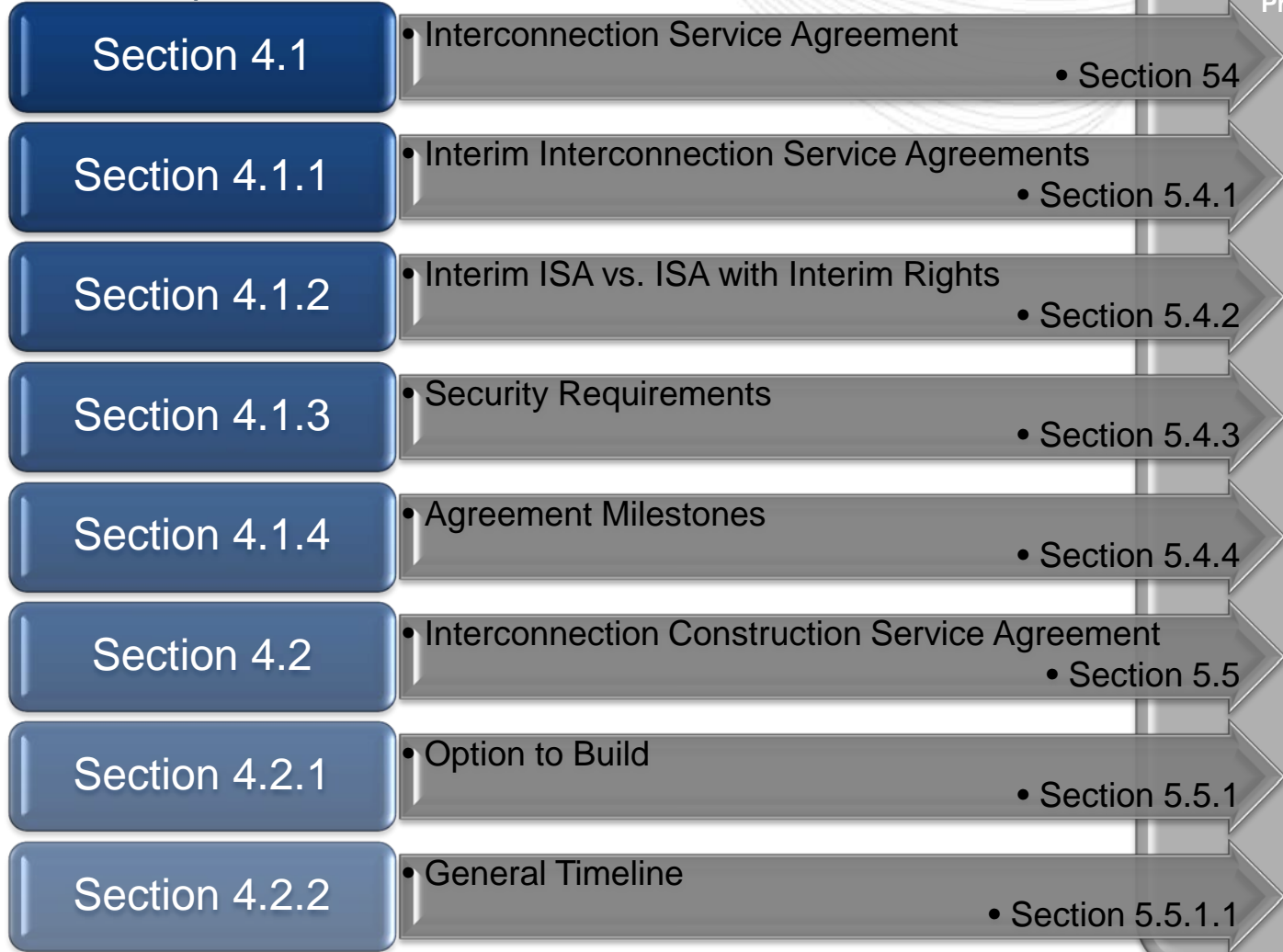


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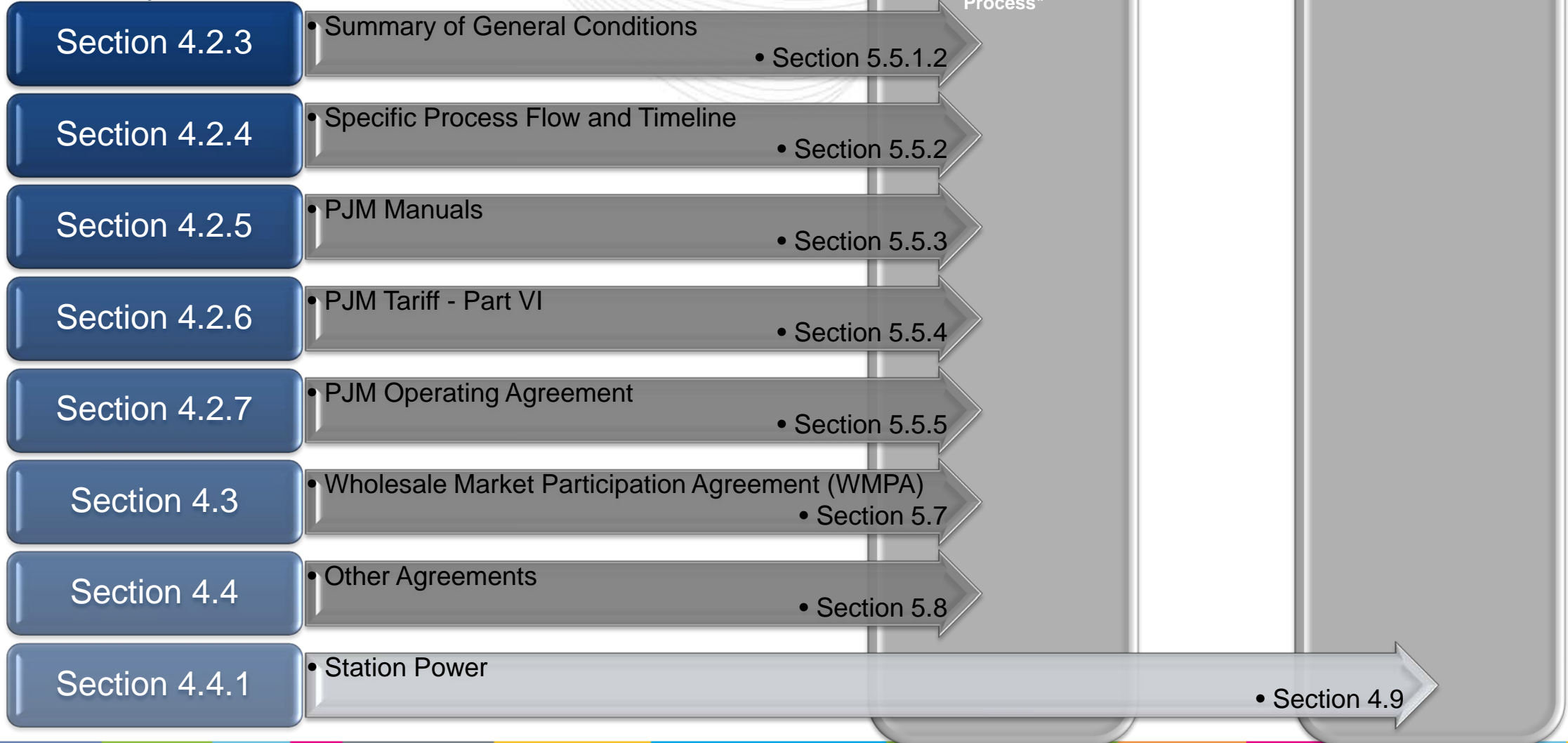


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# Transfer of Content from Current M14A:

## Section 5: Additional Generator Requirements



# Section 5: Additional Generator Requirements

Existing Manual 14A "New Services Request Process"

Modified Manual 14A "New Services Request Process"

New Manual 14G "Generation Interconnection Requests"

Section 5.1

• Behind the Meter Generation Projects

• Section 1.6

Section 5.1.1

• BtMG Interconnection Requests

• Section 1.6.1

Section 5.1.2

• BtMG Metering

• Section 1.6.2

Section 5.1.3

• BtMG Effects on Market Operations

• Section 1.6.3

Section 5.1.4

• Non-Retail BtMG

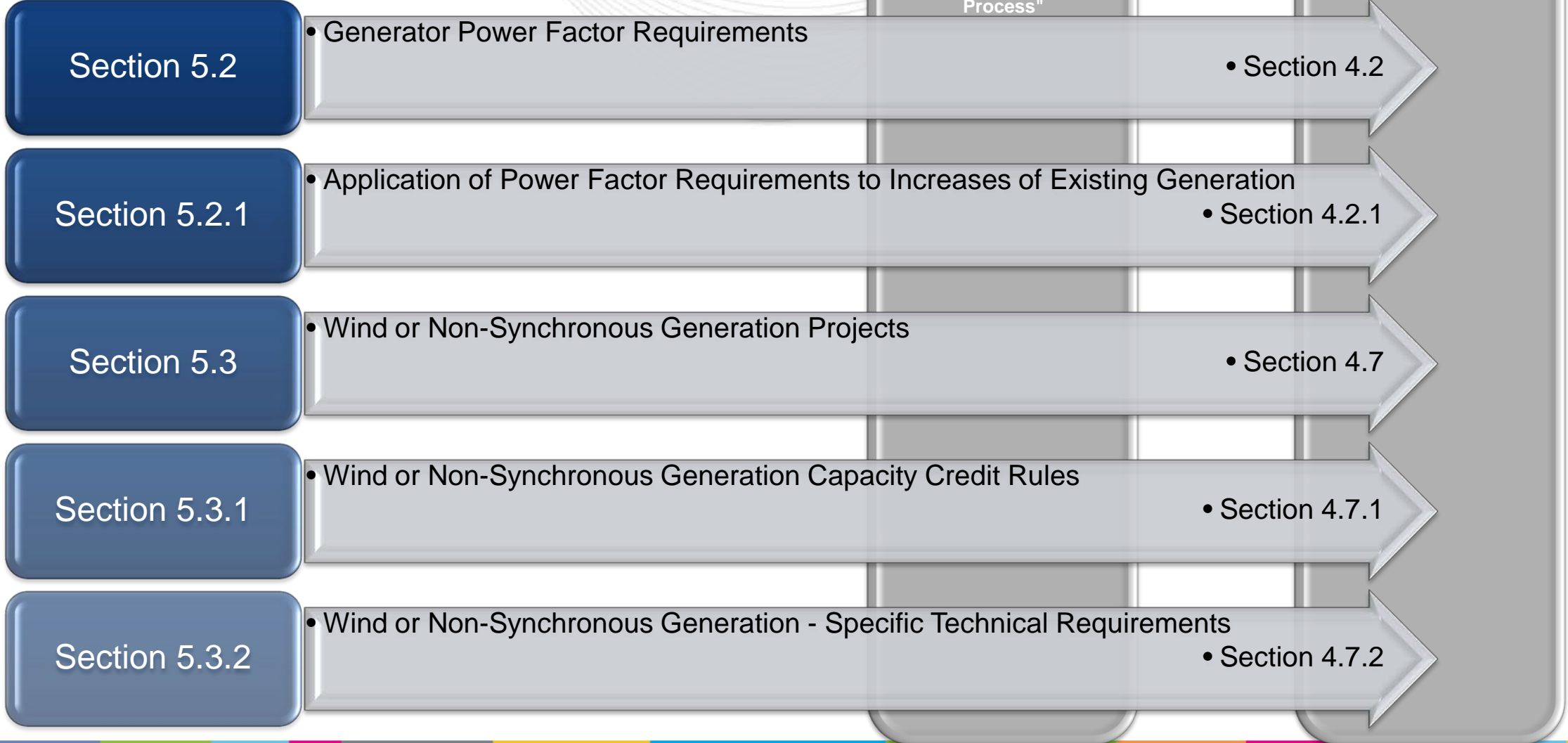
• Section 1.6.4

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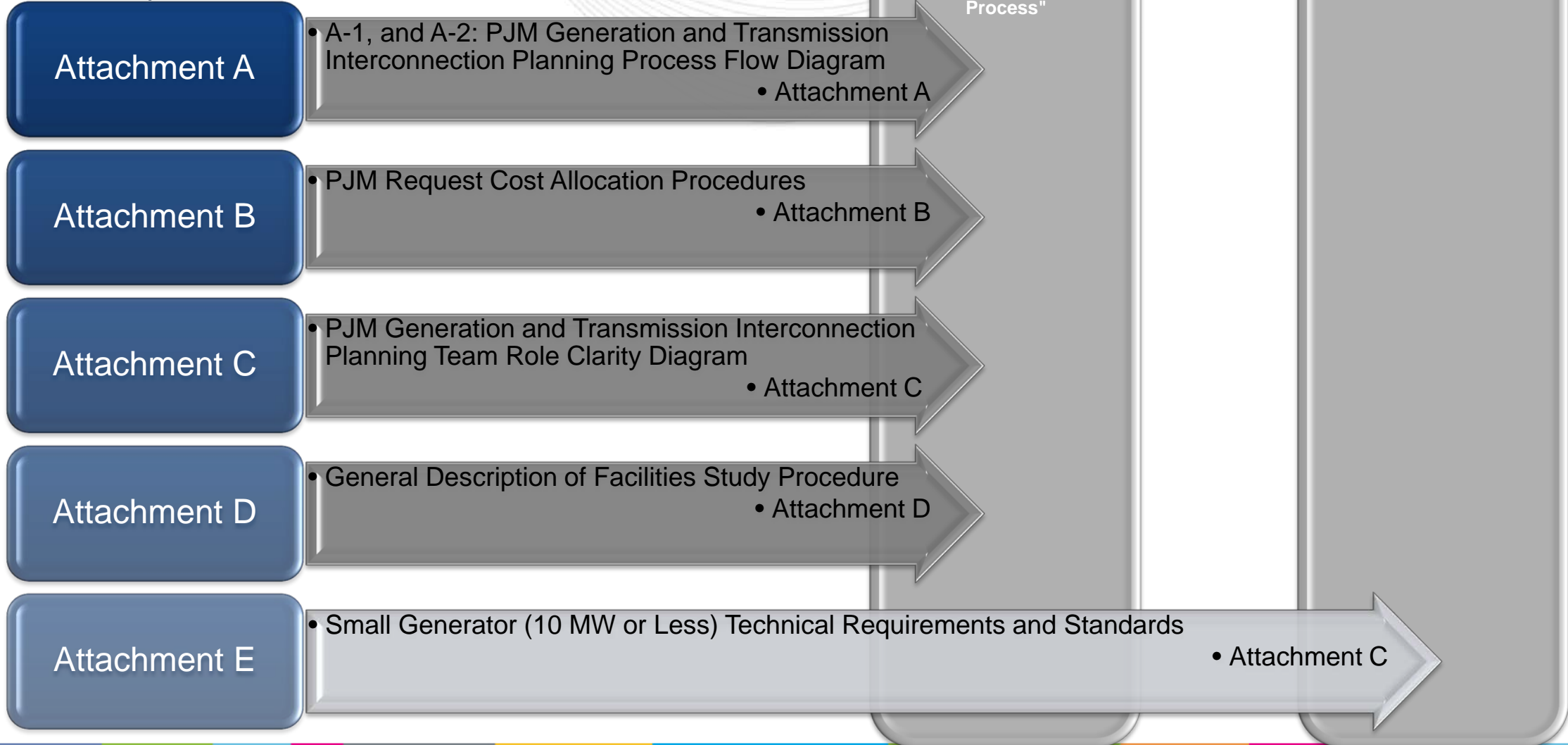


# Transfer of Content from Current M14A: Attachments & Annex

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New Manual 14G "Generation Interconnection Requests"



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Modified Manual 14A "New Services Request Process"

New Manual 14G "Generation Interconnection Requests"

Attachment E-1

- Small Generator (greater than 10 MW up to 20 MW) Technical Requirements and Standards
- Attachment D

Attachment F

- Generation Interconnection Feasibility Study Data
- Attachment A

Attachment F-1

- Feasibility Study Data Form
- Attachment A-1

Attachment G

- System Impact Study Data
- Attachment B

Existing Manual 14A "New Services Request Process"

Modified Manual 14A "New Services Request Process"

New Manual 14G "Generation Interconnection Requests"

Attachment G-1

• Dynamic Model Study Request Form

• Attachment B-1

Attachment G-2

• System Impact Data Form

• Attachment B-2

Attachment H

• Generator Reactive Deficiency Mitigation Process

• Attachment E

Annex 1

• SCADA Requirements by Transmission Owner Region

• Attachment F



- V1 – 6/XX/2018 – Original Slides Posted