Commonwealth Fusion Systems

From:	Commonwealth Fusion Systems LLC (CFS)
To:	Devens Enterprise Commission
Title:	Response to Comment 9 CFS-3 Level II Unified Permit Application Review Comments (#D25-013)
Date:	12/12/2025

1 Executive Summary

CFS is developing plans for its Devens campus expansion. CFS expects that the primary contributor to any potential electromagnetic interference (EMI) emitted during operation for the proposed campus will be our magnet test stands. These will be operated to conduct testing and quality control of magnets manufactured for CFS' ARC™ fusion power plants. The expected magnetic field strength will depend on final design, installation, and operation of manufacturing equipment within the proposed CFS-3 manufacturing facility. At all times, CFS will remain compliant with the expectations outlined in 974 CMR 4.03(3).

2 Updated Response to Questionnaire

As part of the permitting process CFS has been asked to provide:

> *An updated response to the Electromagnetic Interference (EMI) assessment for CFS-2 and Magnetic Fields at Devens memo from Commonwealth Fusion Systems that includes a cumulative assessment of CFS-1 through 4.*

Updated questionnaire responses:

46. Have you identified all your potential electromagnetic sources?
Yes.

47. Are you proposing to provide spreadsheet calculations of potential increase in electromagnetic interference and how it will not affect any internal or external receptors as per 974 CMR 4.03(3)?
No.

48. Are you proposing any mitigation to reduce your overall electromagnetic profile?
No. See 49.

49. Will your project comply with all the electromagnetic requirements under 974 CMR 4.03
Yes.

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3 Compliance with Applicable Regulation

The only potential contributors to EMI from CFS-1 through CFS-4 are magnetic fields generated by the electromagnet test stands to support ARC magnet manufacturing in CFS-3. ARC magnet design, test criteria, and the final manufacturing configuration housed in CFS-3 are under development.

As the ARC magnet design matures and we further define our testing operations, we will continue to analyze our potential for electromagnetic interference. CFS will institute engineering, operational, and administrative controls as needed to ensure that no pronounced, multiple patterns of nuisance to or interference with any Receptor beyond CFS property lines occurs. In all events, CFS will maintain compliance with 974 CMR 4.03.

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