

**Date:** [Insert Date]

**To:** [Recipient Name/Model Development Team]

**From:** [Your Name/Review Department]

**Subject:** Deficiency Letter: Unjustified Model Assumptions and Limitations

## 1. Identification of Deficiency

Upon review of the model documentation for [Model Name/Version], it has been determined that several key assumptions and inherent limitations lack sufficient justification or empirical support. This lack of transparency poses a risk to the reliability and accuracy of the model's output.

## 2. Specific Areas of Concern

The following assumptions have been identified as unjustified:

- [Assumption 1]: No data or statistical evidence was provided to support this premise.
- [Assumption 2]: The assumption appears to contradict historical trends observed in [Specific Dataset].
- [Assumption 3]: The impact of this assumption on the model's sensitivity has not been tested.

The following limitations were insufficiently addressed:

- [Limitation 1]: The documentation fails to quantify the potential error introduced by this limitation.
- [Limitation 2]: There are no stated guardrails or alternative processes for when the model operates outside these boundaries.

## 3. Required Remediation Actions

To resolve these deficiencies, the following actions are required:

- Provide empirical evidence or mathematical proofs for each primary assumption.
- Conduct and document a sensitivity analysis to demonstrate how changes in these assumptions affect the model output.
- Expand the "Limitations" section to include specific scenarios where the model is expected to underperform.
- Define clear thresholds for model usage and provide a plan for manual intervention when limitations are reached.

## 4. Deadline for Response

Please provide a revised model validation package or a formal remediation plan by [Insert Date]. Failure to address these concerns may result in [Insert Consequence, e.g., restriction of model use].

Sincerely,

[Your Signature]  
[Your Title]