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# Mandate Concepts for new features

## 1. Intent

Enforce new library features to use concepts in the specification when templates are used.

## 2. Scope

LEWG and LWG *procedures*.

## 3. Motivation

- There are new facilities that do not declare concepts in their specifications, but rather use the old wording technique of “Mandate” or similar to constrain the template parameters. E.g: [\[P0792R12\]](#),[\[P0288R9\]](#), [\[P2505R4\]](#)
- Concepts were adopted to the C++ standard for C++20.
- Concepts enable libraries to express their intent clearly.
- Concepts provide improved specification, type checking and error messages.
- We should use concepts in our own library for the reasons they exist.
- Keeping the standard library without concepts tells other programmers that concepts shouldn't be used.

## 4. Underlying Reasoning

This paper asks the committee to expose and discuss the underlying reasons for not fully adopting concepts.

## 5. Possible Outcomes

The author sees few possible outcomes from the discussion of this paper:

- Concepts are enforced for new library facilities (recommended)
- Concepts are “nice to have” when provided (keeping current status)

- The discussion is boiled down to clearly set the line for cases that concepts are required and cases that concepts are not required or even dangerous in a way.

## 6. Wording

There is no wording for this paper as it is a procedure change for the committee process.