Adding cooldown from Position into Ponder Indexer

Ref. Smart Contracts

Ref. Github Repo: https://github.com/Frankencoin-ZCHF/FrankenCoin

A list of all the instances where the cooldown variable is assigned a new value in the Position.sol contract:

```
openPosition(...) method:
cooldown = block.timestamp + _duration;

_close() internal method:
cooldown = type(uint256).max;

_restrictMinting(uint256 period) internal method:
if (horizon > cooldown) {
    cooldown = horizon;
}
```

Indexer updated for:

- openPosition
- Close
- __restrictMinting

Who calls, from where does the calls come from?

- 1. openPosition
 - function MintingHub:openPosition(...) public returns (address)
 - emits event MintingHub:PositionOpened(address indexed owner, address indexed position, address zchf, address collateral, uint256 price);
 - function MintingHub:clone(...) public validPos(position) returns (address)
 - emits event MintingHub:PositionOpened(address indexed owner, address indexed position, address zchf, address collateral, uint256 price);
- 2. _close

- o function _considerClose(uint256 collateralBalance) internal
 - function notifyChallengeAverted(uint256 size) external onlyHub
 - function MintingHub:avertChallenge(Challenge memory _challenge, uint32
 number, uint256 liqPrice, uint256 size) internal
 - function MintingHub:bid(uint32 _challengeNumber, uint256 size, bool postponeCollateralReturn) external
 - emits event MintingHub: ChallengeAverted (address indexed position, uint256 number, uint256 size);
 - function _withdrawCollateral(address target, uint256 amount) internal returns (uint256)
 - emits event MintingUpdate(uint256 collateral, uint256 price, uint256 minted, uint256 limit);
- o function deny(address[] calldata helpers, string calldata message) external
 - emits event PositionDenied(address indexed sender, string message); // emitted if closed by governance

3. _restrictMinting

- function adjustPrice(uint256 newPrice) public onlyOwner noChallenge
 - event MintingUpdate(uint256 collateral, uint256 price, uint256 minted, uint256 limit);
- function notifyChallengeAverted(uint256 size) external onlyHub (<<< DUPLICATED >>>)
 - function MintingHub:avertChallenge(Challenge memory _challenge, uint32 number, uint256 liqPrice, uint256 size) internal
 - function MintingHub:bid(uint32 _challengeNumber, uint256 size, bool postponeCollateralReturn) external
 - emits event MintingHub: ChallengeAverted (address indexed position, uint256 number, uint256 size);
- function notifyChallengeSucceeded(address _bidder, uint256 _size) external onlyHub returns (address, uint256, uint256, uint32)
 - function MintingHub:_finishChallenge (...)
 - emits event MintingHub: ChallengeSucceeded (address indexed position, uint256 number, uint256 bid, uint256 acquiredCollateral, uint256 challengeSize);

Duplicated code section

function notifyChallengeAverted(uint256 size) external onlyHub {
 challengedAmount -= size;

```
_restrictMinting(1 days);
   _considerClose(_collateralBalance());
}
```

List of emitted Events to catch a change in cooldown

openPosition (create)
 MintingHub:PositionOpened (from openPosition)
 MintingHub:PositionOpened (from clonePosition)
 close (update)
 MintingHub:ChallengeAverted
 Position:MintingUpdate
 Position:PositionDenied
 restrictMinting (update)
 Position:MintingUpdate
 MintingHub:ChallengeAverted
 MintingHub:ChallengeSucceeded